Tentative Minutes of the IEEE P802.11

**Full Working Group
Plenary Meeting
Montreal, PQ, Canada**

10 to 14 November 1997

Monday, 10 November, 1997

1.0 Opening Meeting called to order by Vic Hayes at 15:00, Agenda of 43rd session of 802.11 is in doc.:IEEE P802.11 11-97/100R2. George Fishel, secretary[1], is present and ready to take the notes.

Objectives for this meeting, all groups

1.1   Review and presentation of Technical Submissions

1.2   Criteria and requirements multipath (Channel Models)

   1.2.1 PAR processing
              1.2.1.1 approval for 802.1 standard(s)
              1.2.1.2 TGb PAR, input from other groups
              1.2.1.3 Compatibility/Co- Existence
              1.2.1.4 Evaluation process
   1.2.2 TGa HIPERLAN type 1 tutorial Tue afternoon)
   1.2.3 TGa Attend Mon eve tutorial of HIPERLAN to 802
              1.2.3.1 Schedule confirmation**.**

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[1] The officers of the Working Group are:

Mr. VICTOR **HAYES**	**Mr.** GEORGE **FISHEL**	Mr. BOB **O'HARA**
Chairman IEEE P802.11	Secretary IEEE P802.11	Editor IEEE P802.11
Lucent Technologies	AMP Inc.	Informed Technologies Inc.
Phone: +31 30 609 7528	Phone: +1 717 592 6161	Phone: +1212 645 4317
Fax: +31 30 609 7498	Fax: +1 717 592 6179	Fax: +1 212 645 6719
E-Mail: v.hayes@ieee.org	E-Mail: grfishel@amp.com	E-Mail: bob_ohara@informed-technologies.com

Mr. STUART **KERRY**	Mr. CHRIS **ZEGELIN**
Vice Chairman IEEE P802.11	Vice Chairman IEEE P802.11
	Symbol Technologies Inc.
Phone: +1 408 496 6868	Phone: +1 408 369 2667
Fax: +1 408 496 0909	Fax: +1 408 369 2740
E-Mail: stuart@ok-brit.com	E-Mail: chrisz@psd.symbol.com

Mr. DAVE **BAGBY**	Mr. DEAN **KAWAGUCHI**
Chair IEEE P802.11-MAC group	Chair IEEE P802.11-PHY group
Advanced Micro Devices	Symbol Technologies Inc.
Phone: +1 408 987 2423	Phone: +1 408 369 2629
Fax: +1 408 987 2800	Fax: +1 408 369 2740
E-Mail: david.bagby@amd.com	E-Mail: deank@psd.symbol.com

1.1 Roll Call: People in the room were invited to introduce themselves.

1.2 Voting rights:

1.2.1 Participation in debates, moving and seconding is only permitted by voting members, in all 802.11 meetings (at all levels). The subgroup chairs may permit observers to participate in debates.

1.2.2Voting at the working group level is by voting members only. Chair may permit observers to participate in debate. To become a voting member:
    1.2.2.1participate in at least 2 out of 4 consecutive plenary meetings. Voting rights start at third meeting
    1.2.2.2participation in at least 75% in meetings, in the room
    - one interim may be exchanged for a plenary
    - Voting members will get a token to be used at votes

1.2.3 Voting rights can be maintained:
    1.2.3.1by participation in 2 plenary meetings within 4 consecutive plenary meetings
    1.2.3.2one interim may be substituted for a plenary

1.2.4Voting rights may be lost:
    1.2.4.1 after failing to pay the conference fee
    - after missing two out of three consecutive letter ballots

1.2.5Current state of member status:

        1.2.5.1Voting members

        1.2.5.2Aspiring voting members

        1.2.5.3Nearly voting members

1.3 Attendance list, Register

1.4 Administration: The attendance list was circulated, Richard Paine supervising - 75% attendance according to the attendance list is required to qualify for participating in the meeting as a whole, so make sure to sign the book. Copies of the attendance list are handed out before the end of each meeting.
    1.4.1 important for administration of voting rights that the attendance book is used properly.
    1.4.2 sign per meeting (morning, afternoon, evening). Do not sign ahead.
    1.4.3 place initials. Do not cross or underline.
    1.4.4- circle the letter corresponding to the meeting you attend when signing (F=full 802.11, P=PHY, M=MAC group).

1.5 Check e-mail addresses in the book:
    1.5.1 some addresses have been struck, or have a $-sign added to the right - those received complaints from the reflector
    1.5.2 please strike your e-mail address if you do not use it
    - if you do not disagree to receiving very long files, mark bulk e-mail with yes

Logistics: Document distribution is done using pigeon holes - you will find your copies and messages in the referenced location in the expanding file folders in the slot *in front of* your name.

Conference fee to be paid through registration office.
    Copying and collection of files is managed by Stuart Kerry assists in the pigeonhole stuffing. Stuart is also in charge of document numbers.

Coffee breaks at 10 AM and 3 PM. Noon to 1:00 PM lunch

Document distribution:
- sign in for a slot, remember the letter and number
- pigeon holes are file folders with a letter id on each folder and a number on each slot
- in each folder are numbered slots, each of which is 'owned' by a person
- each person owns slot in front of number

1.5 IEEE Patent Policy Vic Hayes explained the IEEE Patent Policy as per Clause 5 of the IEEE Standards By-Laws and per Clause 6.3 of the IEEE Standards Operations Manual. He specifically asked for notification from members of patents applicable to the Published standards or draft standard and that patent holders submit the requested statement.

1.6 Other announcements

- General information available on diskette from George Fishel
  - 1 diskette with relivent documents mailed
- Every two years the officers must be reconfirmed
  - Vic Hayse

2.   Approval of the minutes of previous meetings

Minutes of the Maui meeting approved 11-97/72

Motion 1:   Dean/A nil   24-0-1

3.   Reports

3.1 the Executive Committee ExCom meeting report made by Vic Hayes

- Start date of DIS 8802-11 ballot is unknown. ISO secretariat is behind schedule, but it would be a 4 month ball need to pass a motion with a planned position
- Need to present the number of persons that commit to work on the PAR throughout the process to the approval standard
  - please submit notices to me

The ExCom request the number of 802.11 members that will be willing to work on a on new PARs:

39 said they were willing to work on 802.11a
44 said they were willing to work on 802.11b
9 said they were willing to work on 802.11c
17 said they were willing to work on the maintenance PAR.

All motions on the recent letter ballot passed. A report is available in the documents list

3.2 FCC meeting report
Dean Kaugaachi gave a report of the teleconference with the FCC. Meeting minutes will be available later in the day.

4. **Review of Contributions**
    Document 802.11-97/143   List of contributions for the Montreal meeting.
    Vic Hayse reviewed the documents list.
Some discussion on the contribution by Naftali Chayat # 97/96 Tentative criteria for comparison of modulation methods.

Motion 2: Beginning tomorrow morning (Tuesday) that all session of task group a of task group be moved to parallel sessions with task group b.

Bob O'Hara / no Second   **Motion 2 fails.**

5. **Adoption of Agenda**
    Vic review the agenda material:

    Motion 3: To adopt agenda 11-97/100
    Stuart Kerry/Jan Boer   Agenda adopted motion 3 passes. 23-0-0
6. **Unfinished Business**
    6.1 PAR for 2.4 GHz work
    6.2 Liaison with WINForum's
            SRDC   97/46, 97/80, 97/106+107
7. **New Business**
    7.1 802.1 PAR
        97/101
Motion 4: Motion to submit PAR document to Ex Com 97/101 For submission
Keith / Tom   20-0-5 Motion 4 passes.

Motion 5:   Motion to approve doc 97/102 be submitted to ExCom for submission to NesCom

Naftali Chiatt/Jan Boer   Motion 5 passes 22-0-2

    8.   **Meeting adjourned for the day by Vic Hayes at 16:40.**

Wednesday 12, November 1997
13:00

Meeting was reopened by Vic Hayse at 13:10 hours.

Member introduction.

Stuart Kerry presented the documents update.

Vic Presented the agenda update:

Request was made for volunteers to work on the maintenance PAR. Dean Kauaguchi requested a definition on how the maintenance PAR works. This request was added as an agenda item.

Motion 6: Agenda approval: Motion to approve
Dean Kauaguchi/Stuart Kerry   22-0-0   Agenda approved

9.4.1 A study group will meet to discuss the IR PHY
9.4.2 Meeting on Maintainance in Menkenzie Room
9.4.3 2.4 GHz spectrum in Europe a meeting will be held at the European
      CEPT received a letter from a company asking for changing the rules (like in the USA) to permit the
      whole band for RFID devices at 500 mW. Just for 8 kbit/s

    There is a meeting of Spectrum Engineering 24 next week in London to discuss this

    Information and concern could be addressed to
        Jim Connolly at the European Radio Office (ERO):connolly@mail.ERO.DK
        Anne Leino (chair of SE24 who do the compatibility assessment): anne.leino@ntc.nokia.com

9.4.4 Pigeon holes
      –one per person please!
      –spare complete sets available?
      –those taking more than one have automatically volunteered to make up for late arriving people

10. Old Business
      •10.1   2.4 GHz PAR
      •10.2   Other PARs
      doc 97/147

Discussion on the maintenance PAR and discussion of the schedule.

Errors in the current standard need to be corrected and the maintenance PAR will be a way of correcting
those errors.

Motion to :
      To rectify a number of errors in the current standard and to accommodate inputs from the JTC1
      review to result in a single JTC1/IEEE Standard.

      In7 Purpose: strike numerousand replace "resulting from the review of " into "found in
      reviewion ", So the new purpose would reed:

      To correct the errors found in reviewing an interpretation requests to the current standard and
      from JTC1review.

**Motion 7: Made to approve the changes in Doc 97/147 as amended and to request SEC to submit all three
PARS to NesCom for approvial at the december meeting**
Dean/Anil   22-0-1   Motion 7 passes

11. New Business
•11.1 Vote to JTC1 LB on DIS 8802-11
      –doc 97/148
•11.2 Proposed draft 802.11c
      –doc P802.11c/D1
      –doc 97/150
11.3

Motion 8: Motion to forward document 97/148 to SEC as the US position to be forwarded to JTC1

Stuart Kerry/ Bob O'Hara   16-0-5   Motion 8 passes.
Report by Victoria Poncini on the status of the work on the bridging Document IEEE 802.11c draft 1

Submission by Michael Fischer on Bridging solution. Draft will be available tomorrow.

Naftali made a comment on bridging and he said that two methods of bridging Translation and Encapsulation Bridging. The bridging that should be described is Translation Bridging.

Motion 9: IEEE 802.1h is the recommended method for bridging

Motion by Michael Rothenberg/Naftali Chiatt

Protest from David Bagby: Motion out of order as not a part of the charter of 802.11

Vic Hays ruled the motion out of orded

an apperl by Michael Rothenberg   and second by Naftali Chiatt 9-3-15 Vic's ruling on motion 9 prevailed

13. Adjournment for Subgroups at 14:50

Thursday 13 November
15:00

14. Closing Plenary
      14.1 Announcments
            14.1.1 Proposal for change of registration
                enable email registration
                give encentice for pre registration by raising the price on site registrationto US $300.
            14.1.2 Attendance list and Errors
                Vic feels that errors are present in the list and when you find them please advise him.
            14.1.3 Motion fore DIS 8801-11: to mandate me to vote on and submit output of WG balllot
              to ISO. May cause to ask for delay of ISO approval till 1999 if we get concernsout of
              ballot
      15. Document list updates:
          No updates

      16. Unfinished Business

      17. Review of agenda:
          Vic Hayes reviews agenda.

Motion 10: Approval of agenda.
Steuart Kerry/Carl Andren   22-0-0   Motion 10 Passes

Report of Working Group "A" on Progress of 5GHz standard by Naftali Chiatt

Motion 11: "Request to approve schedual document as the work of task group "A"and the criteria for comparison of proposals"
Naftali Chiatt/John Caferella   16/0/5   Motion 11 passes.

Naftali reported that the agenda for the next meeting is to review additional proposal.

Report of Study Group "B" by John Fakatselis

Seven technical presentation were make for modulations schemes for higher rate 2.4 GHz LAN applications. Many key items were discussed:
1. **Interopability with low rate PHYs**
2. **Multipath and channel Modulation**
3. **FCC**
A motion to send a copy to the FCC of each presentation received so that they can look over them and make comments passed.

 Item: motion to accept the criterion for comparing modulation schemes and passed.

Item: submit topics to WLANA for Marketing data input

Motion 12: to accept the seven proposals for modulation schemes
John Fakatselis/Al Petrick   20-0-0   Motion 12 passes

Motion 13: to send seven proposals to FCC for comment for comment
John Fakatselis/Carl Andren
Discussion of motion.   Motion 13 withdrawn by proposer John Fakatselis

Motion 14: To accept criteria for judging modulation schemes for 2.4GHz High speed PHY.

John Fakatselis/Bob O'Hara   21-0-1   Motion 14 passes.

Vic expressed that 802.3 expressed concern over backward compatibility of the Higher Speed PHY.
Vick asked John Fakatselis to come to ExCom and explain backward compatability issues to the ExCom.

 Maintrainance Group 802.11
        Report Given By Bob O'Hara
        Maintainance group also looked at the Bridging IEEE 802.11c/draft 1
        Report
        Motion 15:   To send to working group ballot after the PAR is approved.

        Victoria Poncini/Anil Sanwalka   17-0-2   Motion 15 passes

Liaison to IR Group:
        Report Given By Richard Paine. Six people worked on the update of the standard update.
        • Would like to see higher bandwidth
        • Need more participation
                • more IR vendors available
                • invite IR vendors to contribute
                • letter to invite IR vendors to next plenary. Signed by Vic

        Proposal: to send letter as drafted by group to IR vendors.

        Motion 16: To send letter 97/ 149 to vendors of IR equipment vendors asking for contributions and participate in the next plenary of 802 as proposed to include IrDA.

        Richard Paine/Oren Rossenfelt   5/7/7   Motion 16 fails.

15.5 Liaison to ETSI Bran
Motion 17: To send a letter to ETSI BRAN
Stuart Kerry/Bob O'Hara   13-0-2   Motion 17 passes.

16. Unfinished business

16.2 Next meeting
- **Will be the week of 19 January 1998 for 5 days in Everett Washington hosted by Roy Sebring of intermec technologies**
- **mailing will be as soon as possible**

17 New Business
- **files on FTP should be full names so people can find things on the server**
- **Files should be contributed at the beginning of meeting in electronic copy.**

Motion 18:   move to hold TGa and TGb in parallel

Dave Bagby/Bob O'Hara   5-6-7   Motion 18 fails
- **Personal Area Networks Tutorial at the next Plenary of 802 sponsored by 802.11.**

18 Close at 17:15

Attendance list

Full name	memstatus	company	phone
			e_mail
Mr. Jeff Abramowitz	voter	3Com Corporation	+1 408 764 5974
			jeff_abramowitz@3com.com
Mr. Keith B. Amundsen	voter	Raytheon Company	+1 508 470 9483
			keith_b_amundsen@raytheon.com
Mr. Carl F. Andren	voter	HARRIS Corporation	+1 407 724 7535
			candren@harris.com
Mr. Kamran Aquil	nonvoter	Nortel	+1 972 685 5398
			kaquil@nortel.com
Mr. Shigeyuki Asami	nonvoter	Japan Radio Co Ltd	+81 422 45 9231
			asami@lab.jrc.co.jp
Mr. David Bagby	voter	Advanced Micro Devices	+1 408 749 5425
			david.bagby@amd.com
Mr. James R. Baker	nonvoter	Netwave Technologies Inc.	+1 510 737 1646
			jbaker@netwave-wireless.com
Mr. Charles Henry Bianchi	nonvoter	Sanders Lockheed Martin	+1 603 645 5744
			charles.bianchi@lmco.com
Mr. John Biddick	voter	Intermec Corporation	+1 206 348 2600
			jbiddick@intermec.com
Mr. Jan Boer	voter	Lucent Technologies WCND	+31 30 609 7483
			janboer@lucent.com
Mr. Ronald Brockmann	voter	No Wires Needed B.V.	+31 30 228 1245
			ronald.brockmann@nwn.nl
Mr. Wesley Brodsky	nonvoter	Raytheon Company	+1 508 490 1616
			wesley_g_brodsky@res.raytheon.com

Full name	memstatus	company	phone
			e_mail
Dr. John H. Cafarella	nearly voter	Micrilor Inc.	+1 781 246 0103
			johncafarella@worldnet.att.net
Ms. Angela Champness	nonvoter	Lucent Technologies WCND	+31 30 609 7622
			champness@lucent.com
Mr. Naftali Chayat	voter	BreezeCom	+972 3 645 6262
			naftalic@breezecom.co.il
Mr. Darrol Draper	nonvoter	Golden Bridge Technology	+1 303 452 2185
			afdraper@ix.netcom.com
Mr. John Fakatselis	voter	HARRIS Corporation	+1 407 729 4733
			jfakat01@harris.com
Mr. Jeff Fischer	nonvoter	Micrilor Inc.	+1 617 246 0130
			jefffisch@aol.com
Mr. George Fishel	voter	AMP Inc.	+1 717 592 6161
			grfishel@amp.com
Mr. David Fisher	aspirant	3Com Corporation	+1 408 764 7200
			david_fisher@3mail.3com.com
Mr. John Fisher	aspirant	Proxim Inc.	+1 415 526 3703
			johnf@proxim.com
Mr. Michael Froning	nonvoter	University of New Hampshire	+1 603 862 4105
			emf@iol.unh.edu
Mr. Motohiro Gochi	nonvoter	Clarion Corporation of America	+617 245 7001
			mgochi@msn.com
Mr. Tim Godfrey	voter	Digital Ocean Inc.	+1 913 888 3380
			tgodfrey@digocean.com
Mr. Jan Haagh	aspirant	Lucent Technologies WCND	+31 3060 97464
			haagh@lucent.com

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Full name	memstatus	company	phone
			e_mail
Mr. Karl Hannestad	nonvoter	Netwave Technologies Inc.	+1 510 737 1600
			khannest@netwave-wireless.com
Mr. Ken Hartman	nonvoter	Qnet LLC	+1 630 851 4127
			khartman@dqnet.com
Mr. Victor Hayes	voter	Lucent Technologies WCND	+31 30 609 7528
			vichayes@lucent.com
Mr. Robert Heile	nearly voter	BBN GTE Interworking	+1 617 873 4835
			bheile@bbn.com
Mr. Maarten Hoeben	voter	No Wires Needed B.V.	+31 30 228 0910
			maarten.hoeben@nwn.nl
Mr. Duane Hurne	nonvoter	Golden Bridge Technology	+1 972 517 2115
			dhurne@stargate-com.com
Mr. Masayuki Ikeda	aspirant	Seiko Epson Corp.	+81 266 52 3131
			ikeda.masayuki@exc.epson.co.jp
Mr. Richard Jai	nonvoter	Symbol Technologies Inc.	+1 408 558 2861
			rjai@psd.symbol.com
Mr. Rafael Perez Jimenez	nonvoter	University of Las Palmas of Gran	+34 28 45 28 65
			rperez@cibeles.teleco.ulpgc.es
Mr. Donald C. Johnson	nonvoter	NCR	+1 937 445 1452
			donald.c.johnson@daytonoh.ncr.com
Mr. Nobuo Karaki	nonvoter	Epson R&D, Inc.	+1 408 952 6102
			nkaraki@erd.epson.com
Mr. Kevin Karcz	nonvoter	University of New Hampshire	+1 603 862 1008
			kjk@unh.edu
Mr. Dean M. Kawaguchi	voter	Symbol Technologies Inc.	+1 408 369 2629
			deank@psd.symbol.com

Full name	memstatus	company	phone
			e_mail
Mr. Stuart J. Kerry	voter	Butterfly Communications Inc.	+1 408 496 6868
			stuartk@butterfly.com
Mr. Rex L. Kesser	nonvoter	AMP Inc.	+1 717 986 3790
			rlkesser@amp.com
Mr. Chip Kirchner	nonvoter	Symbol Technologies Inc.	+1 408 558 2824
			ckirchne@psd.symbol.com
Mr. Hanspeter Kuepfer	nonvoter	Siemens Switzerland Ltd.	+41 1 495 47 06
			hanspeter.kuepfer@x400.siemens.ch
Mr. James S. Li	nonvoter	Institute for Information Industry	+886 2 564 3588
			jamesli@iii.org.tw
Mr. Francisco J.	aspirant	E.T.S.I. Telecommunicacion	+34 1 336 73 41
			dxtn@tfo.upm.es
Dr. Reza Majidi-Ahy	aspirant	RadioLAN	+1 408 524 2600
			rahy@radiolan.com
Mr. Isao Masaki	nonvoter	Clarion Corporation of America	+1 310 965 1718
			isaomasaki@msn.com
Mr. Jim McDonald	aspirant	Motorola Inc.	+1 847 576 3169
			cjm015@email.mot.com
Mr. Gene Miller	nonvoter	Raytheon Company	+1 508 490 1838
			gene_d_miller@res.raytheon.com
Dr. Akira Miura	voter	Panasonic Technologies Inc.	+1 650 858 1000
			miura@tadw.research.panasonic.com
Mr. Masaharu Mori	nonvoter	Clarion Co. Ltd.	+81 48 443 1111
			masmori@msn.com
Dr. Masahiro Morikura	aspirant	NTT Wireless System Labs.	+81 468 59 3132
			morikura@mhosun.wslab.ntt.co.jp

Friday, November 14, 1997   Page 4 of 7

Full name	memstatus	company	phone
			e_mail
Mr. Colin Nayler	nearly voter	Advanced Micro Devices	+1 408 749 5884
			colin.nayler@amd.com
Dr. Richard van Nee	nonvoter	Lucent Technologies WCND	+31 30 609 7412
			vannee@lucent.com
Mr. Bob O'Hara	voter	Informed Technology Inc.	+1 212 463 7937
			bob@informed-technology.com
Dr. Tomoki Ohsawa	voter	NEC Corporation	+81 44 856 2242
			ohsawa@nwk.cl.nec.co.jp
Mr. Kazuhiro Okanoue	nonvoter	NEC Corporation	+81 44 856 2255
			okanoue@ccm.cl.nec.co.jp
Mr. Richard H. Paine	voter	The Boeing Company	+1 425 865 4921
			richard.h.paine@boeing.com
Mr. Roger Pandanda	nonvoter	Multimedia Communication	+1 619 558 9300
			pandanda@mcsc.com
Mr. Al Petrick	voter	HARRIS Corporation	+1 407 729 4944
			apetrick@harris.com
Mr. Bob Pham	nearly voter	NEC America Inc.	+1 703 834 4486
			phamr@hn.va.nec.com
Mr. Tim Phipps	nonvoter	Symbionics	+44 1223 421025
			tgcp@symbionics.co.uk
Ms. Victoria M. Poncini	nearly voter	The Boeing Company	+1 425 865 5342
			victoria.m.poncini@boeing.com
Mr. Peter D. Ransome	nonvoter	The Technology Partnership Inc.	+44 1763 262626
			pdr@techprt.co.uk
Dr. Stanley A. Reible	nonvoter	Micrilor Inc.	+1 617 246 0103
			reible@compuserve.com

Full name	memstatus	company	phone
			e_mail
Mr. William Roberts	voter	American Microsystems Inc.	+1 208 233 4690
			wroberts@poci.amis.com
Mr. Kent G. Rollins	voter	HARRIS Corporation	+1 407 729 5133
			krollins@harris.com
Mr. Oren Rosenfeld	nearly voter	Eldat Communication Ltd.	+972 3 6182299
			orenr@eldat.com
Mr. Michael Rothenberg	voter	BreezeCom	+972 3 645 6262
			michaelr@breezecom.com
Mr. Philippe Rouzet	nonvoter	Dassault Electronique	+33 01 34 81 45 77
			philippe.rouzet@dassault-elec.fr
Dr. Clemens C.W. Ruppel	nonvoter	Siemens AG	+49 89 636 5 33 25
			clemens.ruppel@mchp.siemens.de
Mr. Anil K. Sanwalka	voter	Neesus Datacom Consultants	+1 416 754 8007
			anil@neesus.com
Mr. Thomas Siep	voter	Texas Instruments	+1 972 480 6786
			siep@ti.com
Mr. Donald I. Sloan	aspirant	Aironet Wireless Communications	+1 330 664 7917
			dons@aironet.com
Mr. David Smith	aspirant	National Security Agency	+1 301 688 0271
			drsmit5@alpha.ncsc.mil
Mr. Gary Spiess	nonvoter	Intermec Technologies Corp.	+1 319 369 3580
			spiess@norand.com
Mr. Satoru Toguchi	aspirant	JVC	+81 462 78 1871
			toguchi@krhm.jvc-victor.co.jp
Mr. Mike Trompower	voter	Aironet Wireless Communications	+1 330 664 7920
			mtrom@aironet.com

Friday, November 14, 1997

Full name	memstatus	company	phone
			e_mail
Mr. Tom Tsoulogiannis	voter	Neesus Datacom Consultants	+1 416 754 8007
			tomt@interlog.com
Mr. Bruce Tuch	nonvoter	Lucent Technologies WCND	+31 3060 97527
			btuch@lucent.com
Mr. Sarosh Vesuna	voter	Symbol Technologies Inc.	+1 408 369 2657
			saroshv@psd.symbol.com
Mr. Leo Wilz	aspirant	Intermec Technologies Corp.	+1 319 369 3668
			wilzl@norand.com
Mr. Harry Worstell	aspirant	AT&T Laboratories	+1 973 386 7856
			hrw3@mailnet.ho.att.com
Mr. Hyun Yoe	nonvoter	Sunchon National University	+1 770 368 8575
			yhyun@sunchon.sunchon.ac.kr
Mr. Jim Zyren	aspirant	Harris	+1 407 729 4177
			jzyren@harris.com