

**UNITED STATES OF AMERICA  
BEFORE THE FEDERAL TRADE COMMISSION**

**In the matter of**

**RAMBUS INC.,**

**a corporation.**

**Docket No. 9302**

**JOINT WITNESS INDEX PURSUANT TO 16 C.F.R. § 3.46**

Pursuant to 16 C.F.R. § 3.46, the parties submit this Joint Witness Index.

**I. WITNESSES CALLED BY COMPLAINT COUNSEL**

1. Steven Appleton is the Chairman of the Board of Directors, Chief Executive Officer and President of Micron Technology, Inc. Mr. Appleton has been with Micron since 1991. He testified on June 20, 2003 (Tr. 6252-6549 (Public); 6555-6575 (in camera)).

2. Andy Bechtolsheim is Vice President and General Manager of Gigabit Systems at Cisco Systems, Inc. He co-founded Sun Microsystems, a company that builds UNIX servers and workstations and was Vice President of Technology. He also founded Granite Systems, a developer of gigabit switching products. He testified on June 18, 2003 (Tr. 5736-5977).

3. Henry Becker is Vice President and Managing Director of Infineon Technologies Richmond. Mr. Becker is in charge of the operations of Infineon's DRAM manufacturing plant in Richmond. He testified on May, 7 2003 (Tr. 1093-1185).

4. Sam Calvin was a Senior Staff Electrical Engineer at Intel Corporation. Mr. Calvin was a representative for Intel at JEDEC meetings from 1992-1997. He testified on May 6, 2003 (Tr. 988-1076).

5. Richard Crisp is an engineer who was Technology and Business Development Manager of the Asia-Pacific Region at Rambus Inc. Mr. Crisp was the primary Rambus representative at JEDEC JC 42.3 meetings from May 1992 until Rambus withdrew from JEDEC. He testified on May 27, 28, and 29, 2003 (Tr. 2910-3606; see also CC's August 8, 2003 filing of "The Parties' Designated Deposition Testimony").

6. Anthony Diepenbrock joined Rambus as an in-house lawyer in September 1995 and remained until May 1999. He is now Of Counsel at Dechert LLP. He testified on June 19, 2003 (Tr. 6097-6238).

7. Bob Goodman is Chief Executive Officer of Kentron Technologies, Inc, a company that provides memory solutions. He testified on June 19, 2003 (Tr. 5988-6040).

8. Jackie Gross is Director of Memory Central Direct Procurement at Hewlett-Packard Company. Ms. Gross was formerly the head of memory procurement, including DRAM, at Compaq. She supervised Compaq's JEDEC representative and is currently the supervisor of Hewlett-Packard's JEDEC representative. She testified on May 20, 2003 (Tr. 2264-2369).

9. Richard Heye is Vice President and General Manager of Platform Engineering & Infrastructure at Advanced Micro Devices, Inc, a company that makes and sells microprocessors and flash memory. He testified on May 30, 2003 (Tr. 3614-3817).

10. Bruce L. Jacob is an Associate Professor of Department of Electrical & Computer Engineering at the University of Maryland. He testified on June 16 and 17, 2003 and on July 30,

2003 (Tr. 5352-5680; 11099-11150).

11. Joel Karp was the Vice-President of Intellectual Property at Rambus, Inc. in the late 1990's. Mr. Karp was a JEDEC representative for Samsung in the early to mid 1990's. He testified (via deposition) on June 6, 17, 27, and 30 (Tr. 4546-4555; 5682-5721; 7785-7818; 8000-8030 (Public); 5727-5728 (in camera)).

12. Gordon Kelley is a Senior Engineer at IBM Corporation. Mr. Kelley was chairman of JEDEC subcommittee JC-42.3, served as Chair of the JEDEC Council, and represented IBM at JEDEC from 1984-1998. He testified on May 20 and 21, 2003 (Tr. 2373-2760).

13. John Kelly is Executive Vice President and General Counsel of the Electronic Industries Alliance and President of the JEDEC Solid State Technology Association. He has been the EIA General Counsel since September, 1990 and the JEDEC President since 2000. He testified on May 14 and 15, 2003 (Tr. 1749-2175).

14. Mark Kellogg is a Distinguished Engineer at IBM Corporation with responsibilities associated with definition of the memory used in IBM's servers. Mr. Kellogg has been a participant and/or representative in JEDEC meetings since 1989. He testified on June 12 and 13, 2003 (Tr. 4982-5341).

15. Ilan Krashinsky is a Memory Technology Expert at Hewlett-Packard Company. Mr. Krashinsky has represented Hewlett-Packard in JEDEC meetings. He testified on May 22, 2003 (Tr. 2767-2856).

16. Thomas Landgraf is Commodity Manager for Semiconductor Memories at Cisco Systems, Inc. Mr. Landgraf formerly was a DRAM Senior Procurement Engineer at Hewlett-Packard Company. Mr. Landgraf attended JC-42.3 subcommittee meetings on behalf of

Hewlett-Packard from 1994-1999 and served on the JEDEC Council from 1998-1999. He testified on May 13, 2003 (Tr. 1675-1725).

17. Terry Lee is the Executive Director of Advanced Technology and Strategic Marketing at Micron Technology, Inc. He was also a JEDEC participant for Micron from 1994-2002. He testified on June 23 and 24, 2003 and on July 30, 2003 (Tr. 6585-7052; 10995-11098 (Public); 7058-7091; 11161-11182 (in camera)).

18. Joe Macri is Director of Technology at ATI Technologies, Inc, a company that provides graphics design to the computer industry. Mr. Macri has been a representative to JEDEC since 1997, presided as the former Chairman of the Future DRAM Task Group, and is the current chairman of JEDEC subcommittee JC-42.3. He testified on June 9, 2003 (Tr. 4569-4740 (Public); 4749-4788 (in camera)).

19. Pete MacWilliams is a Senior Fellow at Intel Corporation, and is also Director of Platform Architecture. He testified on June 12, 2003 (Tr. 4796-4981 (Public); 5069-5081 (in camera)).

20. Preston McAfee is the Murray Johnson Professor of Economics at the University of Texas, Austin. He testified on June 25, 26, and 27, 2003 and on August 1, 2003 (Tr.7110-7782; 11196-11380 (Public); 7621-7663; 7823-7869 (in camera)).

21. Willi Meyer is the Manager of Technical Marketing for Memory Products at Infineon AG. He was a JEDEC representative for Siemens, then later for Infineon since 1985 and acted as the primary representative for many years. He testified (via deposition) on May 22, 2003 (Tr. 2857-2902).

22. Mark E. Nusbaum was an Examiner in Chief at the Patent and Trademark Office and is currently a patent attorney with Nixon and Vanderhye, P.C. law firm, resident in the firm's

Arlington, Virginia office. He testified on May 12, 2003 (Tr. 1484-1657).

23. K. H. Oh is a Professor at the Korea Advanced Institute of Science and Technology. He was formerly a Senior Vice President at Hyundai, now Hynix, overseeing Hyundai's semiconductor operation. He testified (via deposition) on June 3, 2003 (Tr. 4076-4109).

24. Martin Peisl is Senior Director for Specialty DRAM Marketing for Infineon Technologies North America Corp. He testified on June 6, 2003 (Tr. 4363-4536).

25. Steven Polzin is a Senior AMD Fellow and Chief Platform Architect at Advanced Micro Devices, Inc. He testified on June 2, 2003 (Tr. 3932-4054).

26. Werner Reczek is Vice President and Managing Director at Infineon Technologies Austria AG in Villach, Austria. He testified on June 5, 2003 (Tr. 4295-4353).

27. Desi Rhoden is President and Chief Executive Officer of Advanced Memory International, Inc. Mr. Rhoden formerly worked at Hewlett-Packard, and VLSI, a chipset manufacturer, and represented both companies at JEDEC. Mr. Rhoden has been a JEDEC member since the late 1980s. He was the Chairman of the JEDEC Council in 1998 and is the current Chairman of the Board of JEDEC. He also serves as Chairman of the JC-42 committee. He testified on May 1,2 and 7, 2003 (Tr. 260-745; 1187-1289).

28. Brian Shirley is Design Operations Manager for the Computing and Consumer Group at Micron Technology, Inc. He testified on June 4, 2003 (Tr. 4133-4197 (Public); 4204-4288 (in camera)).

29. Howard Sussman is Senior Manager of Marketing & Development at Sanyo Semiconductor Corporation. Mr. Sussman has served as a participant of Mostek, NEC and Sanyo in JEDEC meetings since 1979. Mr. Sussman is a member of the Board of Directors of

JEDEC. He testified on May 8, 2003 (Tr. 1313-1473).

30. Lester Vincent is a Partner at Blakely, Sokoloff, Taylor & Zafman, resident in the firm's Sunnyvale, California office. He served as Rambus's outside patent counsel for much of the 1990s. He testified (via deposition) on May 19, 2003 and (live) on June 30, 2003 (Tr. 2186-2258; 7875-7999 (Public); 8045-8049 (in camera)).

31. Barry Wagner is Manager of Technical Marketing at nVIDIA Corporation, a designer and manufacturer of graphics processors and chipsets. Mr. Wager has been a representative of nVIDIA in JEDEC meetings. He testified on May 30, 2003 (Tr. 3820-3877).

32. Brett Williams is a Strategic Marketing Manager for Desktop Systems at Micron Technology, Inc. Mr. Williams was a representative of Micron in JEDEC meetings from 1991-1993. He testified on May 5, 2003 (Tr. 757-975).

## **II. WITNESSES CALLED BY RESPONDENTS**

1. Reese Brown is a retired engineer who attended JEDEC meetings as a consultant to JEDEC in the 1990's. He testified (via deposition) on July 28, 2003.

2. Samuel Chen was Mitsubishi's JEDEC representative throughout the 1990's. He testified (via deposition) on July 14, 2003. (Tr. 8736:24-8746:8).

3. Mike Farnwald is one of Rambus's founders and is a member of its Board of Directors. He testified on July 9, 2003 and July 10, 2003. (Tr. 8057:2-8355:4; 8361:17-8472:12; see also CC's August 8, 2003 filing of "The Parties' Designated Deposition Testimony").

4. Martin Fliesler is a founding partner of the intellectual property law firm of Fliesler, Dubb, Meyer & Lovejoy LLP in San Francisco, California. He testified on July 15, 2003. (Tr. 8764:20-8959:20).

5. Michael Geilhufe is a consultant and retired Intel executive. He testified on July 21, 2003. (Tr. 9541:23-9746:20).

6. Alan Grossmeier is an engineer at Cray, Inc. He has served as Cray's JEDEC representative since 1989. He testified on July 29, 2003. (Tr. 10929:22-10984:14).

7. David Gustavson was the Secretary of the SyncLink Consortium in the mid-1990's who attended and took minutes of numerous SyncLink meetings. He testified on July 17, 2003. (Tr. 9277:8-9318:17).

8. Craig Hampel is Rambus's Technical Director. He testified on July 14, 2003. (Tr. 8672:8-8735:11 (Public); 8752:3-8755:23 (in camera)).

9. Mark Horowitz is one of Rambus's founders and is a member of its Board of Directors. He testified on July 10, 2003. (Tr. 8475:8-8662:10; see also CC's August 8, 2003 filing of "The Parties' Designated Deposition Testimony").

10. Jeffrey Mailloux is an executive with Micron Technology, Inc. He testified (via deposition) on July 28, 2003. (Tr. 10849:25-10850:4; 10891:10-10909:20).

11. Jim McGrath is Director of Strategic Product Development at Molex Connector Corporation. He has been a JEDEC representative on behalf of Molex since 1992. He testified on July 17, 2003. (Tr. 9239:18-9276:5).

12. Betty Prince is a DRAM industry consultant with her own firm, Memory Strategies International. While at Texas Instruments in the early 1990's, she served as a JEDEC representative. She testified on July 16, 2003. (Tr. 8967:16-9030:20).

13. Richard Rapp is the President of National Economics Research Associates ("NERA"), which is an economics consulting firm that specializes in the economics of competition. Prior to joining NERA, Dr. Rapp was a professor at the State University of New

York at Stony Brook. He testified on July 22 and 23, 2003. (Tr. 9763:9-10018:3; 10026:2-10266:3).

14. Dr. Donald Soderman is a consultant and retired executive in the semiconductor industry. He testified on July 18, 2003 (Tr. 9327:4-9519:16 (Public); 9524:5-9532:17 (in camera)).

15. David Teece is Chairman of LECG, an economic consulting firm, who is also a Professor at the Haas School of Business at the University of California, Berkeley. He testified on July 24, 2003 (Tr. 10294:11-10526:18 (Public); 10532:5-10569:16 (in camera)).

16. Farhad Tabrizi is Vice President of Worldwide Marketing of Memory Products at Hynix Semiconductor Inc. Mr. Tabrizi was a representative of Hynix (and its predecessors) in JEDEC meetings. Mr. Tabrizi was chairman of the SyncLink Consortium. He testified on July 16, 2003 (Tr. 9031:8-9229:24).

17. Hans Wiggers was a JEDEC representative on behalf of Hewlett-Packard during much of the 1990's. He was also a member of the JEDEC Council. He testified on July 25, 2003. (Tr. 10576:3-10608:8).

### **III. DESIGNATIONS SUBMITTED INTO THE RECORD IN WRITTEN FORM**

1. William Davidow is the Chairman of the Board of Directors at Rambus, Inc. His deposition designations were submitted into the record on August 8, 2003 (The Parties' Designated Deposition Testimony).

2. Gary Harmon is the Chief Financial Officer at Rambus, Inc. His deposition designations were submitted into the record on August 8, 2003 (The Parties' Designated



Deposition Testimony).

3. David Mooring is the President and Director of Rambus, Inc. His deposition designations were submitted into the record on August 8, 2003 (The Parties' Designated Deposition Testimony).

4. Geoffrey Tate is the Chief Executive Officer at Rambus, Inc. His deposition designations were submitted into the record on August 8, 2003 (The Parties' Designated Deposition Testimony).

5. Fred Ware is a Principal Engineer at Rambus, Inc. His deposition designations were submitted into the record on August 8, 2003 (The Parties' Designated Deposition Testimony).

Counsel for Rambus has consented to the filing of this Joint Witness Index as required by 16 C.F.R. § 3.46, Proposed findings, conclusions, and order; and to Complaint Counsel's representation that Rambus concurs in all respects with the proposed order attached hereto.

DATED: September 5, 2003

---

M. Sean Royall  
Geoffrey D. Oliver  
Patrick J. Roach

BUREAU OF COMPETITION  
FEDERAL TRADE COMMISSION  
Washington, D.C. 20580  
(202) 326-3663  
(202) 326-3496 (facsimile)

COUNSEL SUPPORTING THE COMPLAINT

Gregory P. Stone  
Steven M. Perry  
Peter A. Detre  
Sean P. Gates  
MUNGER, TOLLES & OLSON LLP  
355 South Grand Avenue, 35<sup>th</sup> Floor  
Los Angeles, California 90071-1560  
(213) 683-9100

A. Douglas Melamed  
Kenneth A. Bamberger  
WILMER, CUTLER & PICKERING  
2445 M Street, N.W.  
Washington, D.C. 20037  
(202) 663-6000

Sean C. Cunningham  
John M. Guaragna  
GRAY, CARY, WARE & FREIDENRICH LLP  
401 "B" Street, Suite 2000  
San Diego, California 92101  
(619) 699-2700

Attorneys for Respondent Rambus Inc.

**CERTIFICATE OF SERVICE**

I, Emily Pitlick, hereby certify that on September 5, 2003, I caused a copy of the following materials:

1. Joint Witness Index Pursuant to 16 C.F.R. § 3.46

to be served upon the following persons:

by hand delivery to:

Hon. Stephen J. McGuire  
Chief Administrative Law Judge  
Federal Trade Commission  
600 Pennsylvania Avenue, NW  
Washington, DC 20580

and by electronic mail and to:

A. Douglas Melamed, Esq.  
Wilmer, Cutler & Pickering  
2445 M Street, NW  
Washington, DC 20037-1402

Steven M. Perry, Esq.  
Munger, Tolles & Olson LLP  
355 South Grand Avenue  
35<sup>th</sup> Floor  
Los Angeles, CA 90071

*Counsel for Rambus Incorporated*

---

Emily Pitlick