

**QUANTUM CORPORATION**

**1980 - 1982**

**DAVE BROWN**

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Magazine Cover - Photograph

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Employee Luncheon November 1980 - Photograph

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News Release (Announcing 10, 20, 30 MB Drives), November 1980

News Release (Management Backgrounder), November 1980

News Release (Technical Backgrounder), November 1980

Quantum's First Check, December 1980

## 1981

Employee Handbook of Personnel Policies and Procedures, January 1981  
Joel Harrison "Assembler of the Month" Award, January 1981 - Photograph  
Checks for Stock Purchase  
Quantum's First Birthday Party, February 1981 - Photograph  
Quantum Ad: March 1981 "New Industry Standard"  
Quantum Ad: "Manufacturing"  
Quantum Ad: "Quantum fully intends to be the leader in 8-inch Winchester drives by 1982" (Jim Patterson)  
Quantum Ad: "Engineering"  
Meeting at Bering Drive, April 1981 - Photograph  
Quantum's First Stockroom - Photograph  
"Quantum's New Building Takes Shape for June 1981 Occupation" - Photograph  
Open House, August 1981 - Photograph  
First Company Picnic, September 1981 - Photograph  
Norm de Nardi Trade Show 1981 - Photograph  
Comdex 1981 Trade Show - Photograph  
Venture Magazine Article "Starting on a Fast Track", November 1981  
Corporate Planning Meeting, Quail Lodge December 1981  
Design of an 8" Disk Drive (J. Harrison)  
Christmas Party Invitations, 1981 and 1982  
Stock Certificate, 10 shares to Employees for Christmas 1981  
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Cash Flow from Operations  
Sales and Income before Taxes  
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Quantum Encoders Passed Shake and Bake January 1982  
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## 1982

Driving up the Quantum Ramp, January to March 1982 - Photograph  
Bonus Program, January 1982 - Photograph  
Quantum's Second Birthday Party, February 1982 - Photograph  
Disk Trend Article (J. Porter) "Rigid Disks"  
10,000th Disk Drive, March 1982  
CSN Article, April 1982  
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NCC 1982 Booth - Photograph  
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Shareholders Meeting, August 1982 - Photographs  
National Sales Meeting, September 1982  
Major Customers  
OMTI  
Sysgen  
Mini Micro Article "Quantum Taking the Lead"  
Employment Ads  
News Article  
Employment Ad  
Quantum Ad: February 1982 "We Couldn't Leave Well Enough Alone"  
Quantum Ad: "They're Selling Like Hotcakes"  
Quantum Ad: "We're Playing Your Song"  
Quantum Ad: "New Quantum Mechanics"  
Quantum Ad: "The 5 1/4" Quantum Leap"  
International Distributors  
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Q2000 Datasheet

Q2080 Datasheet

Q500 and Q2080 Photographs

Q500 Datasheet

Strategy Meeting, Red Lion Inn

Success Profile

Stock Offering, News Articles

"New Issues" Article

November 9, 1982 Prospectus

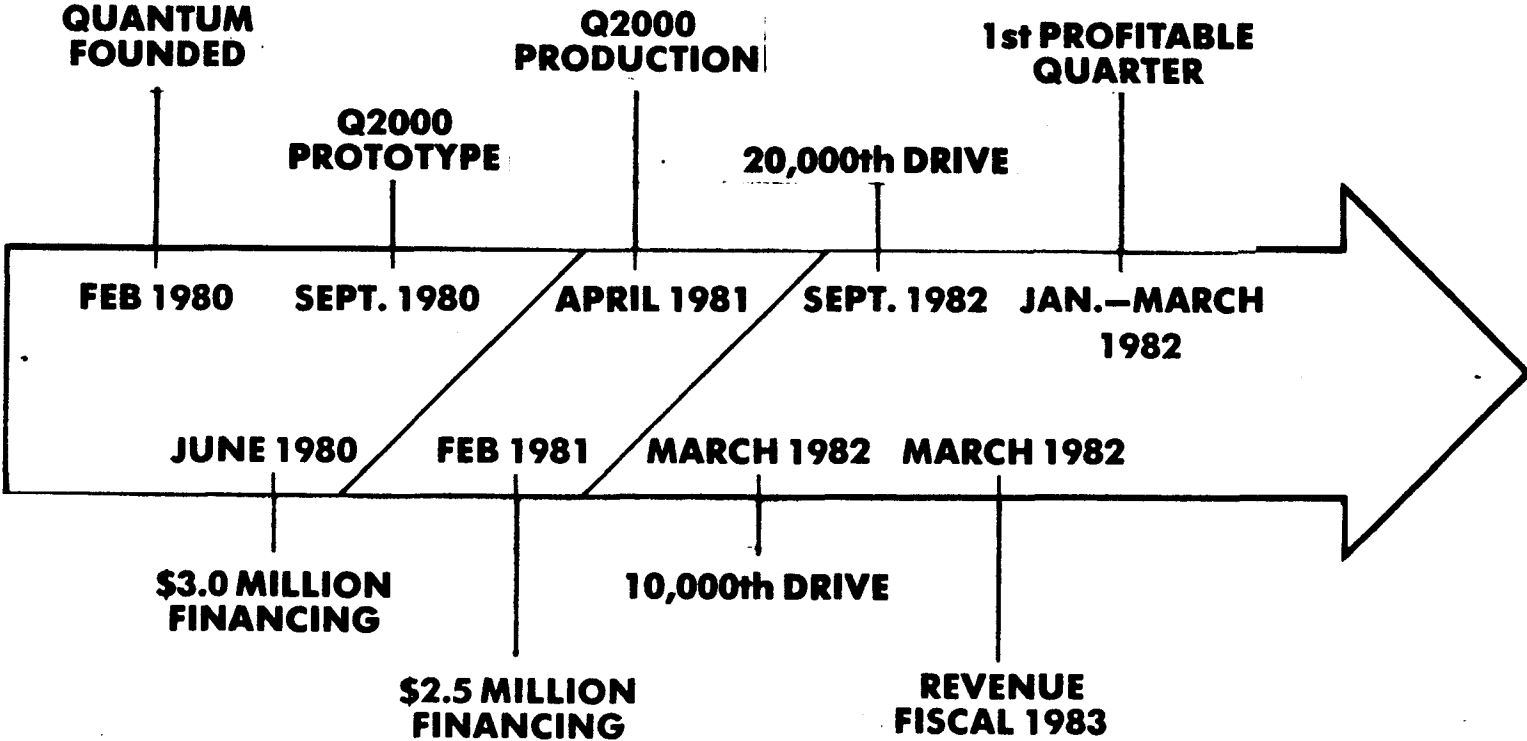
December 10, 1982 Prospectus

December 13 Public Offering - Wall Street Journal





# Milestones



# **Quantum's Major Investors**

**JUNE 1980  
\$3.0 MILLION**

**FEBRUARY 1981  
\$2.5 MILLION**

**APRIL 1982  
\$6.2 MILLION**

**KLEINER, PERKINS, CAUFIELD & BYERS**

**MAYFIELD FUND**

**SUTTER HILL**

**MERRILL, PICKARD, ANDERSON & EYRE**

**CONTINENTAL ILLINOIS VENTURE CORPORATION**

**TECHNOLOGY VENTURE INVESTORS**

**UNIVERSITY OF ROCHESTER**

**STANFORD UNIVERSITY**

# **Facilities**

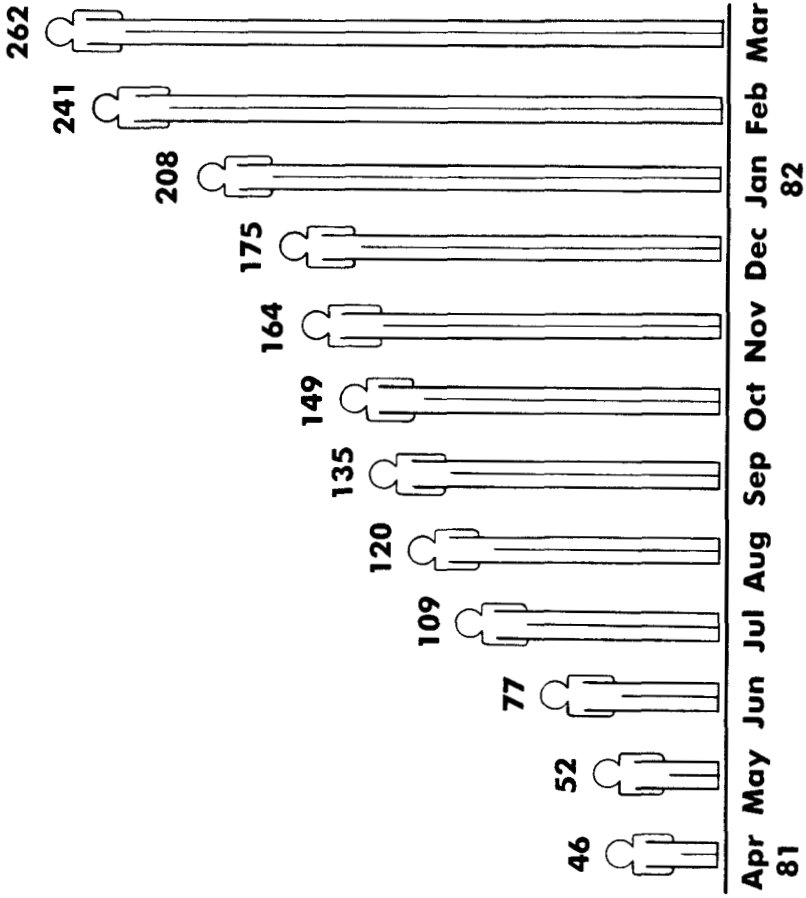
**Fiscal Year 1981**

**13,000 sq. ft.**

**Fiscal Year 1983**

**126,000 sq. ft.**

# Growth in Number of Employees



QUANTUM PRESIDENT

JIM PATTERSON

V.P. FINANCE

Joe Rodgers

V.P. MARKETING

Jim Mc Coy

V.P. MANUFACTURING

Harold Medley

V.P. ENGINEERING

Dave Brown 2/80

Barbara Tapper  
Rachel Spearman

Director of Sales:  
Bob Teal

Tech Support Manager:  
Norm Zimmerman

Materials MGR:  
John Reddoch

Purchasing MGR:  
Hazel Wuolle

Donna Ward  
Malena Rucker

Prod. Control MGR:  
Larry Barta

Manufacturing MGR:  
Dick Lukens

Drive Eng. Manager:  
Joel Harrison 2/80

Don Daniels 2/80

Pat Weiher 7/80

Mike Thorp 8/80

Bruce Petersen 9/80

Randy Graham 8/80

Mike Hassel 7/80

Bob Perchaluk 11/80

Recording Eng. Manager:  
Art Geffon 7/80

Tom Goodreau 10/80

Test Equipment Manager:  
Lauren Ellis 7/80

Bert Binion 9/80

Bill Stanley 10/80

**QUANTUM PRESIDENT**

**JIM PATTERSON**

**V. P. FINANCE**

**Joe Rodgers**

**Barbara Tapper**

**V. P. MARKETING**

**Jim McCoy**

**Ann Krause**

Sales

**Bob Teal, Director**  
**Barry McGriff**  
**Kim Grush**

Tech Support

**Norm Zimmerman, Manager**

**V. P. MANUFACTURING**

**Harold Medley**

Materials

**John Reddoch, Manager**

Purchasing

**Hazel Woulle, Manager**  
**Donna Ward**  
**Malena Rucker**

Product Control

**Larry Barta, Manager**  
**Mike Irace**

Material Control

**Bill McGeever**  
**Ernie Lyon**  
**Garry Bell**

Manufacturing

**Dick Lukens, Manager**  
**Jim Kudenov, Supervisor**  
**Tom Weiberg**  
**Jerry Harrison**  
**Theresa Greer**  
**Anne Reed**

Quality Assurance

**Paul Colvin**

**V. P. ENGINEERING**

**Dave Brown**

Drive Eng.

**Joel Harrison, Manager**  
**Don Daniels**  
**Pat Weiher**  
**Mike Thorp**  
**Bruce Peterson**  
**Randy Graham**  
**Mike Hassel**  
**Bob Perchaluk**  
**Bill Moon**  
**John Attenborough**

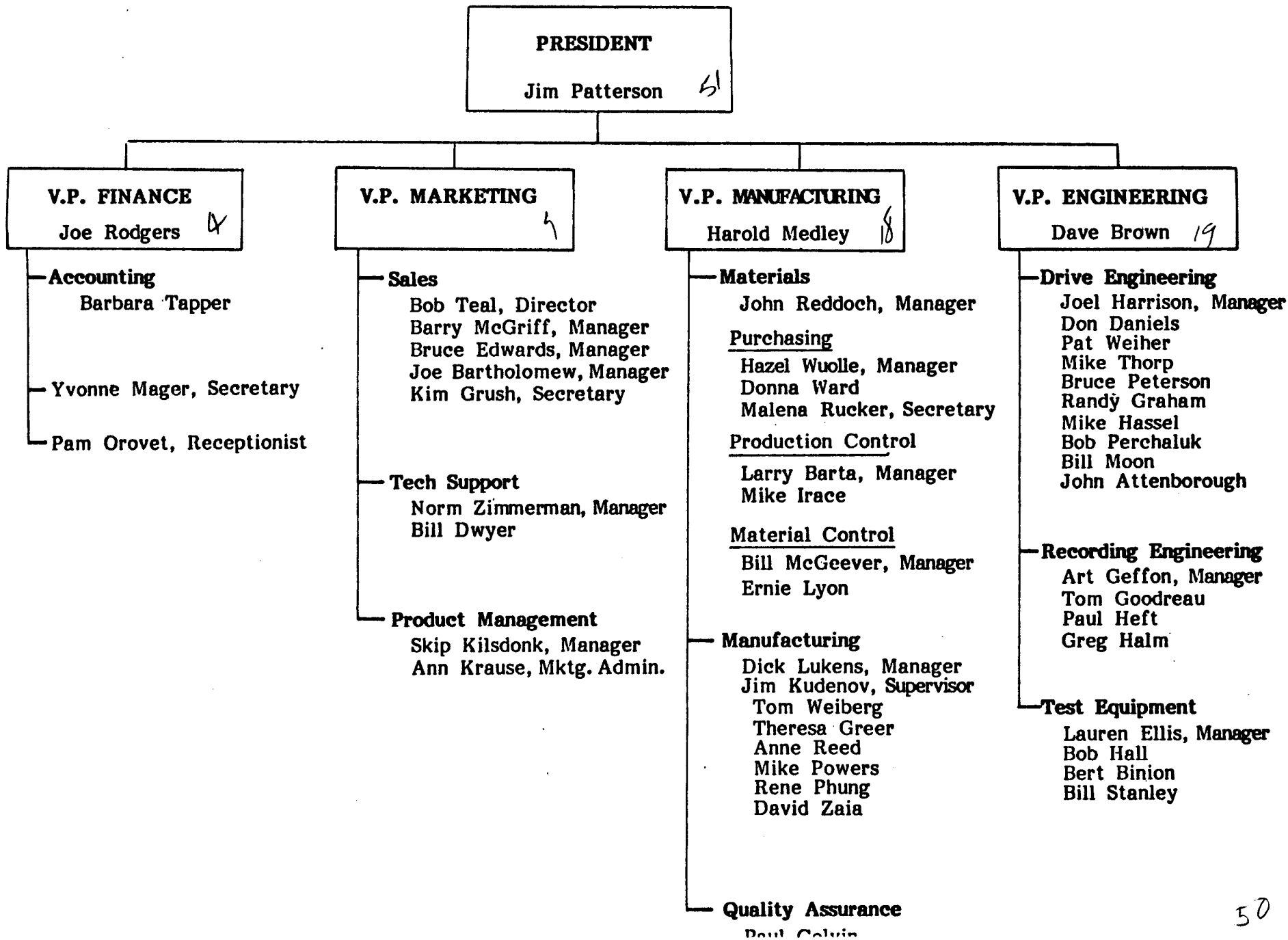
Recording Eng.

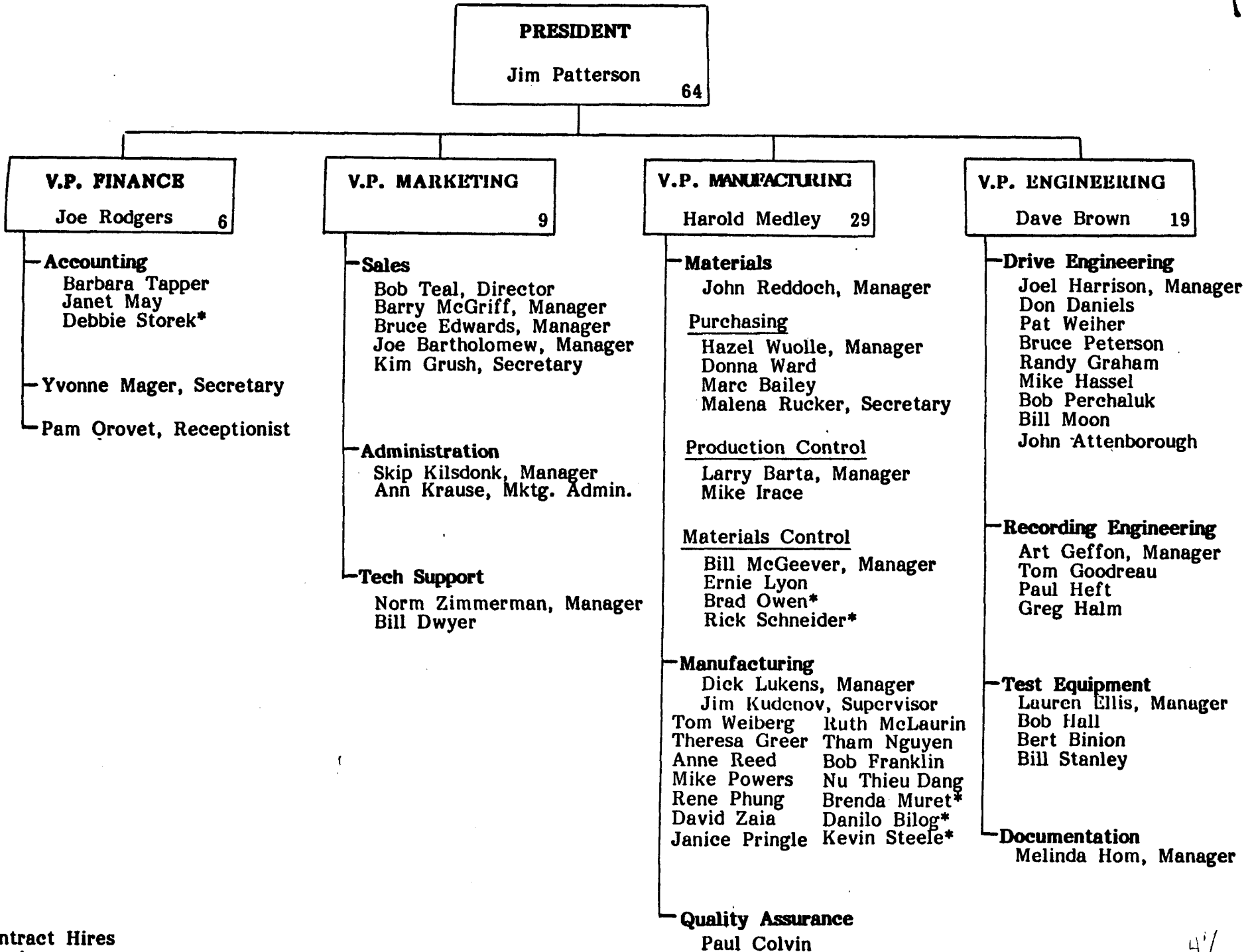
**Art Geffon, Manager**  
**Tom Goodreau**

Test Equipment

**Lauren Ellis, Manager**  
**Bob Hall**  
**Bert Binion**  
**Bill Stanley**

**QUANTUM CORPORATION**





\*Contract Hires



Jim Patterson

80

**V.P. FINANCE**

Joe Rodgers 7

**Accounting**

Barbara Tapper  
Janet May  
Al Pun, ~~Controller~~

Yvonne Mager, Secretary

Pam Orovet, Receptionist  
Myra Mazyck, Receptionist\*

**V.P. MARKETING**

14

**Sales**

Bob Teal, Director  
Barry McGriff, Manager  
Bruce Edwards, Manager  
Joe Bartholomew, Manager  
Linda Stilwell, Secretary  
Kim Grush, Secretary

**Product Marketing**

Skip Kilsdonk, Manager  
Tom Briggs, ~~Manager~~  
Ann Krause, Mktg. Admin.

**Tech Support**

Norm Zimmerman, Manager  
Bill Dwyer  
Dave Wheeler  
~~George Myron\*~~  
Bruce Buxton (TEMP)

**V.P. MANUFACTURING**

Harold Medley 37

**Materials**

John Reddoch, Manager

**Purchasing**

Hazel Wuolle, Manager  
Donna Ward  
Marc Bailey  
Malena Rucker  
Linda Truffa

**Production Control**

Larry Barta, Manager  
Mike Irace  
Ed Romano

**Materials Control**

Bill McGeever, Manager  
Ernie Lyon  
Rick Schneider\*  
Brad Owen\*

**Manufacturing**

Dick Lukens, Manager  
Jim Kudenov, Supervisor  
Tom Weiberg  
Theresa Greer  
Sarah Wade  
Mike Powers  
Rene Phung  
David Zaia  
Janice Pringle  
Ruth McLaurin  
Marilyn Stevens\*  
Tham Nguyen  
Bob Franklin  
Ngahi Bui  
Esther Diaz  
Brenda Muret\*  
Danilo Bilog\*  
Kevin Steele\*  
Tim Tate  
Ngahi Bui

**Facilities**

George Hammitt, Manager

**Quality Assurance**

Dick Cowden, Manager  
Bob Leighton

**V.P. ENGINEERING**

Dave Brown 21

**Drive Engineering**

Joel Harrison, Manager

**Q2000 Engineering**

Pat Weiher, Manager  
Don Daniels  
Bruce Peterson  
Randy Graham  
Mike Hassel  
Bill Moon

**Production Engineering**

John Attenborough, Mgr.  
Chris Methot  
Rod Ngai\*

**Recording Engineering**

Art Geffon, Manager  
Tom Goodreau  
Paul Heft  
Greg Halm

**Test Equipment**

Lauren Ellis, Manager  
Bob Hall  
Bert Binion  
Bill Stanley  
Pam Penticoff

**Documentation**

Melinda Hom, Manager

**QUANTUM CORPORATION**

**PRESIDENT**

Jim Patterson 77

**V.P. FINANCE**

Joe Rodgers 7

- Yvonne Mager
- Accounting**  
Al Pun, Controller  
Barbara Tapper  
Janet May
- Employee Relations**  
Keith Rosheim, Manager  
Pam Orovet

**V.P. MARKETING**

14

- Sales**  
Bob Teal, Director  
Barry McGriff, Manager  
Bruce Edwards  
Joe Bartholomew, Manager  
Dave Pratt  
Kim Grush  
Linda Stilwell
- Product Marketing**  
Skip Kilsdonk, Manager  
Tom Briggs  
Ann Krause
- Tech Support**  
Norm Zimmerman, Manager  
Bill Dwyer  
Dave Wheeler  
Bruce Buxton

**V.P. MANUFACTURING**

Harold Medley 31

- Materials**  
John Reddoch, Manager
- Purchasing**  
Hazel Wuolle, Manager  
Donna Ward  
Marc Bailey  
Lin Truffa
- Production Control**  
Larry Barta, Manager  
Mike Irace  
Ed Romano
- Materials Control**  
Bill McGeever, Manager  
Ernie Lyon  
Rich Schneider\*  
Brad Owen\*
- Manufacturing**  
Dick Lukens, Manager  
Jim Kudenov, Supervisor  
Tom Weiberg Bob Franklin  
Kevin Steele Tim Tate  
Mike Powers Esther Diaz  
Rene Phung Phuc Le  
David Zuiu  
Janice Pringle  
Tham Nguyen  
Marilyn Stevens\*
- Facilities**  
George Hammitt, Manager
- Quality Assurance**  
Dick Cowden, Manager  
Bob Leighton  
Theresa Greer

**V.P. ENGINEERING**

Dave Brown 24

- Drive Engineering**  
Joel Harrison, Manager
- Q2000 Engineering**  
Pat Weiher, Manager  
Don Daniels  
Bruce Peterson  
Randy Graham  
Mike Hassel  
Bill Moon  
Don Westwood
- Production Engineering**  
John Attenborough, Mgr.  
Chris Methot  
Jeff Bone  
Rod Ngai
- Recording Engineering**  
Art Geffon, Manager  
Tom Goodreau  
Paul Heft  
Greg Halm
- Test Equipment**  
Lauren Ellis, Manager  
Bob Hall  
Bert Binion  
Bill Stanley  
Pam Penticoff
- Documentation**  
Melinda Hom, Manager  
Stefan Nolte

**QUANTUM CORPORATION**

6/29/81

**PRESIDENT**

Jim Patterson 92

**QUALITY ASSURANCE**

Dick Cowden, Mgr.  
Bob Leighton  
Theresa Greer

3

**V. P. FINANCE**

Joe Rodgers 8

Yvonne Mager

**Accounting**

Al Pun  
Barbara Tapper  
Janet May  
Laura Peters

**Employee Relations**

Keith Rosheim, Mgr.  
Pam Orovet

**V.P. MARKETING**

14

**Sales**

Bob Teal, Director  
Barry McGriff, Mgr.  
Bruce Edwards  
Joe Bartholomew, Mgr.  
Dave Pratt  
Kim Grush  
Linda Stilwell

**Product Marketing**

Skip Kilsdonk, Mgr.  
Tom Briggs  
Ann Krause

**Tech Support**

Norm Zimmerman, Mgr.  
Bill Dwyer  
Dave Wheeler  
Bruce Buxton

**V.P. MANUFACTURING**

Harold Medley 42

**Materials Administration**

Purchasing

Donna Ward  
Marc Bailey  
Lin Truffa

Material Systems

John Reddoch, Mgr.  
Mike Irace  
Ed Romano

Materials Control

Bill McGeever, Mgr.  
Ernie Lyon  
Rick Schneider  
Brad Owen  
Rick Camara\*

**Manufacturing**

Dick Lukens, Mgr.  
Jim Kudenov, Supervisor

Direct: 25  
2\*(Contract)

27

**Facilities**

George Hammitt, Mgr.

**V.P. ENGINEERING**

Dave Brown 24

**Drive Engineering**

Joel Harrison, Mgr.

Q2000 Engineering

Pat Weiher, Mgr.  
Don Daniels  
Bruce Peterson  
Randy Graham  
Mike Hassel  
Bill Moon  
Don Westwood

Production Engineering

John Attenborough, Mgr.  
Chris Methot  
Jeff Bone  
Rod Ngai

**Recording Engineering**

Art Geffon, Mgr.  
Tom Goodreau  
Paul Heft

**Test Equipment**

Lauren Ellis, Mgr.  
Bob Hall  
Bert Binion  
Bill Stanley  
Pam Penticoff

**Documentation**

Melinda Hom, Mgr.  
Carl Bactad  
Stefan Nolte

**QUANTUM CORPORATION**

7/20/81

\*Contract /Temporary

**PRESIDENT**  
Jim Patterson 120

**QUALITY ASSURANCE**  
Dick Cowden, Mgr.  
Bob Leighton  
Theresa Greer  
Bob Ceynowa  
Anna Curatolo 6  
Estrella DeHoyos

**V. P. FINANCE**  
Joe Rodgers 11

Yvone Mager  
ACCOUNTING  
Al Pun  
Barbara Tapper  
Janet May  
Laura Peters\*  
Pam Orovet  
EMPLOYEE RELATIONS  
Keith Rosheim, Mgr.  
Lori Gregg  
Nancy Pastale  
FACILITIES  
George Hammitt, Mgr.

**V.P. MARKETING**  
15

SALES  
Bob Teal, Dir.  
Barry McGriff, Mgr.  
Bruce Edwards  
Joe Bartholomew, Mgr.  
Dave Pratt  
Kim Grush  
Linda Stilwell  
Richard Howe  
PRODUCT MARKETING  
Skip Kilsdonk, Mgr.  
Tom Briggs  
Ann Krause  
TECH SUPPORT  
Norm Zimmerman, Mgr.  
Bill Dwyer  
Dave Wheeler  
Kerri Riney

**V.P. MANUFACTURING** 60  
Dave Brown (Acting)

MATERIALS ADMIN.  
John Tomlin, Mgr.  
PURCHASING  
Jim Caldwell, Mgr.  
Donna Ward  
Marc Bailey  
Lin Truffa  
MATERIALS CONTROL  
Bill McGeever, Mgr.  
Ernie Lyon  
Rick Schneider  
Brad Owen  
Rick Camara\*  
Mike Irace  
Ed Romano  
MANUFACTURING  
Dick Lukens, Mgr.  
Jim Kudenov, Supv.  
Jay Carey, Supv.  
Direct: 39  
5\*  
44  
INDUSTRIAL ENGINEERING  
Harold Medley, Mgr.

**V.P. ENGINEERING**  
Dave Brown 27

Christina Lopez  
DRIVE ENGINEERING  
Joel Harrison, Mgr.  
Q2000 ENGINEERING  
Pat Weiher, Mgr.  
Don Daniels  
Bruce Peterson  
Randy Graham  
Mike Hassel  
Bill Moon  
Don Westwood  
PRODUCTION ENGINEERING  
John Attenborough, Mgr.  
Chris Methot  
Jeff Bone  
Rod Ngai  
Scott Dimmick  
RECORDING ENGINEERING  
Art Geffon, Mgr.  
Paul Heft  
Phuc Le  
TEST EQUIPMENT  
Lauren Ellis, Mgr.  
Bob Hall  
Bert Binion  
Bill Stanley  
Pam Penticoff  
Tom Goodreau  
DOCUMENTATION  
Melinda Hom, Mgr.  
Carl Bactad  
Ramona Coletta

QUANTUM CORPORATION  
REVISED  
8/31/81

\*Contract/Temporary

**PRESID.** 128  
Jim Patterson

**QUALITY ASSURANCE**  
Dick Cowden, Mgr.  
Bob Leighton  
Theresa Greer  
Bob Ceynowa  
Anna Curatolo  
Estella DeHoyos 6

**V.P. FINANCE**  
Joe Rodgers 11

- Yvonne Mager
- ACCOUNTING**  
Al Pun, Controller  
Barbara Tapper  
Janet May  
Pam Orovet  
Laura Peters\*
- EMPLOYEE RELATIONS**  
Keith Rosheim, Mgr.  
Lori Gregg  
Nancy Pastale
- FACILITIES**  
George Hammitt, Mgr.

**V.P. MARKETING**  
16

- SALES**  
Bob Teal, Dir.  
Barry McGriff, Mgr.  
Bruce Edwards  
Joe Bartholomew, Mgr.  
Dave Pratt  
Kim Grush  
Linda Stilwell  
Richard Howe  
John Green
- PRODUCT MARKETING**  
Skip Kilsdonk, Mgr.  
Tom Briggs  
Ann Krause
- TECH SUPPORT**  
Norm Zimmerman, Mgr.  
Bill Dwyer  
Dave Wheeler  
Kerri Riney

**V.P. MANUFACTURING** 65  
Dave Brown (Acting)

- MATERIALS ADMIN.**  
John Tomlin, Mgr.
- PURCHASING**  
Jim Caldwell, Mgr.  
Donna Ward  
Marc Bailey  
Lin Truffa
- MATERIALS CONTROL**  
Bill McGeever, Mgr.  
Ernie Lyon  
Rick Schneider  
Brad Owen  
Rick Camara\*  
Mike Irace  
Ed Romano
- MANUFACTURING**  
Dick Lukens, Mgr.  
Jim Kudenov, Supv.  
Jay Carey, Supv.  
Direct: 46  
3\*  
49
- INDUSTRIAL ENGINEERING**  
Harold Madley, Mgr.

**V.P. ENGINEERING** 29  
Dave Brown

- Christina Lopez
- DRIVE ENGINEERING**  
Joel Harrison, Mgr.
- PCB ENGINEERING**  
Tom Goodreau
- Q2000 ENGINEERING**  
Pat Weiher, Mgr.  
Don Daniels  
Bruce Peterson  
Randy Graham  
Mike Hassel  
Bill Moon  
Don Westwood  
Paul Heft
- PRODUCTION ENGINEERING**  
John Attenborough, Mgr.  
Chris Methot  
Jeff Bone  
Rod Ngai  
Scott Dimmick
- RECORDING ENGINEERING**  
Art Geffon, Mgr.  
Phuc Le  
John Lee
- TEST ENGINEERING**  
Joel Harrison, Mgr. (Act)
- TEST EQUIPMENT MFG.**  
Dick Lukens, Mgr. (Act)  
Bob Hall  
Pam Penticoff  
Leonard Irby
- TEST EQUIPMENT DEVEL.**  
Lauren Ellis, Mgr.  
Bill Stanley  
Bert Binion
- DOCUMENTATION**  
Melinda Hom, Mgr.  
Carl Bactad

QUANTUM CORPORATION  
9/21/81  
\*Contract/Temporary

PRESIDENT  
146  
Jim Patterson

QUALITY ASSURANCE  
Dick Cowden, Mgr.  
Bob Leighton  
Theresa Greer  
Bob Caynowa  
Anna Curatolo  
Estella DeHoyos  
Melanie Fulton 7

V.P. FINANCE  
Joe Rodgers 13

Yvonne Mager

ACCOUNTING

Al Pun, Controller  
Barbara Tapper  
Janet May  
Pam Orovat  
Laura Peters\*

EMPLOYEE RELATIONS

Keith Rosheim, Mgr.  
Lori Gregg  
Nancy Postale

FACILITIES

George Hammitt, Mgr.  
Kenneth Cansino  
Allen Ikuta\*

QUANTUM CORPORATION

10/26/81

\*Contract/Temporary

V.P. MARKETING  
Steve Berkley 23

Rita Hopkins

SALES ADMIN.

Bob Teal, Dir.  
Kim Marker

WESTERN REGION

Barry McGriff, Mgr.  
Bruce Edwards  
Dennis Raquet

EASTERN REGION

Joe Bartholomew, Mgr.  
Dave Pratt  
Linda Stilwell  
Richard Howe  
John Green

PRODUCT MARKETING

Skip Kiledonk, Mgr.  
Tom Briggs  
Ann Krause  
Lana Costanzo  
Cindy Kemp

TECH SUPPORT

Nora Zimmerman, Mgr.  
Bill Dwyer  
Dave Wheeler  
Kerri Riney  
Richard Dixon  
Dennis Lawrence

V.P. MANUFACTURING 71  
Dave Brown (Acting)

MATERIALS ADMIN.  
John Tomlin, Mgr.

PURCHASING

Jim Caldwell, Mgr.  
Donna Ward  
Marc Bailey  
Lin Truffa  
Theran Norman

MATERIALS CONTROL

Bill McGeever, Mgr.  
Ernie Lyon  
Rick Schneider  
Brad Owen  
Rick Camara\*

PRODUCTION CONTROL

Tom Hill, Mgr.  
Mike Irace  
Ed Romano  
Renee Burk\*

MANUFACTURING

Dick Lukens, Mgr.  
Jim Kudenov, Supv.  
Jay Carey, Supv.  
Direct: 50  
2\*

INDUSTRIAL ENGINEERING

Harold Medley, Mgr.

V.P. ENGINEERING 31  
Dave Brown

Christina Lopez

DRIVE ENGINEERING

Joel Harrison, Mgr.

PCB ENGINEERING

Tom Goodreau

Q2000 ENGINEERING

Pat Weiher, Mgr.  
Don Daniels  
Bruce Peterson  
Randy Graham  
Mike Hassel  
Bill Moon  
Don Westwood  
Paul Heft  
Brian Nixon

PRODUCTION ENGINEERING

John Attenborough, Mgr.  
Chris Methot  
Jeff Bone  
Rod Ngai  
Scott Dimpick

RECORDING ENGINEERING

Art Geffon, Mgr.  
Phuc Le  
John Lee

TEST ENGINEERING

Joel Harrison, Mgr. (Act)

TEST EQUIPMENT MFG.

Dick Lukens, Mgr. (Act)  
Bob Hall  
Pam Penticoff  
Leonard Irby

TEST EQUIPMENT DEVEL.

Lauren Ellis, Mgr.  
Bill Stanley  
Bert Binion  
Gil Valtierra\*

DOCUMENTATION

Melinda Hom, Mgr.

# QUANTUM CORPORATION

11/30/81

PRESIDENT

164

Jim Patterson

## QUALITY ASSURANCE 9

Dick Cowden, Mgr.  
Bob Ceynowa  
Melanie Fulton  
Hans Proskauer, Insp. Mgr.  
Theresa Greer G. Callizioli  
Anna Curatolo Janine Monselle  
Marion Schedler\*

## V.P. FINANCE 13

Joe Rodgers

Yvonne Mager

### ACCOUNTING

Al Pun, Controller  
Barbara Tapper  
Janet May  
Pam Orovot  
Laura Peters\*

### EMPLOYEE RELATIONS

Keith Rosheim, Mgr.  
Lori Gregg  
Nancy Postale

### FACILITIES

George Hammitt, Mgr.  
Kenneth Cansino  
Allen Ikuta\*

## V.P. MARKETING 25

Steve Berkley

Rita Hopkins

### SALES ADMIN.

Bob Teal, Dir.  
Kim Marker

### WESTERN REGION

Barry McGriff, Mgr.  
Bruce Edwards  
Dennis Raquet

### EASTERN REGION

Joe Bartholomew, Mgr.  
Dave Pratt  
Lin Stilwell  
Richard Howe  
John Green

### PRODUCT MARKETING

Skip Kilsdonk, Mgr.  
Tom Briggs  
Lana Costanzo  
Ann Krause  
Cindy Kemp  
James Parson

### TECH SUPPORT

Nora Zimmerman, Mgr.  
Bill Dwyer  
Dave Wheeler  
Kerri Riney  
Richard Dixon  
Dennis Lawrence  
Raul Bass

## V.P. MANUFACTURING 78

Dave Brown (Acting)

### MATERIALS ADMIN.

John Tomlin, Mgr.

### PURCHASING

Jim Caldwell, Mgr.  
Donna Ward  
Marc Bailey  
Lin Truffa  
Theran Norman

### MATERIALS CONTROL

Bill McGeever, Mgr.  
Ernie Lyon  
Rick Schneider  
Brad Owen  
George Morales\*  
Martin MacDonald\*

### PRODUCTION CONTROL

Tom Hill, Mgr.  
Mike Irace  
Ed Romano  
Chris Stern\*

### MANUFACTURING

Dick Lukens, Mgr.  
Jim Kudenov, Supv.  
Jay Carey, Supv.  
Direct: 58

### INDUSTRIAL ENGINEERING

Harold Madley, Mgr.

## V.P. ENGINEERING 38

Dave Brown

Christina Lopez

### DRIVE ENGINEERING

Joel Harrison, Mgr.

### PCB ENGINEERING

Tom Goodreau

### Q2000 ENGINEERING

Pat Weiher, Mgr.  
Bruce Peterson  
Randy Graham  
Mike Hassel  
Bill Moon  
Don Westwood  
Paul Heft  
Brian Nixon

### PRODUCTION ENGINEERING

John Attenborough, Mgr.  
Chris Methot  
Jeff Bone  
Rod Ngai  
Scott Dimmick

### RECORDING ENGINEERING

Art Geffon, Mgr.  
Phuc Le Dick Simonsen  
John Lee

### TEST ENGINEERING

Bob Peterson, Mgr.

### TEST EQUIPMENT MFG.

Bob Hall, Mgr.  
Pam Penticoff S. Sampayan  
Leonard Irby M. Pyle\*  
Linda Byers Pat Pearson

### TEST EQUIPMENT DEVEL.

Bob Peterson, Mgr. (Act)  
Bill Stanley Dan Swiger  
Bert Binion Lauren Ellis  
Gil Valtierra\*

### DOCUMENTATION

Melinda Hom, Mgr.

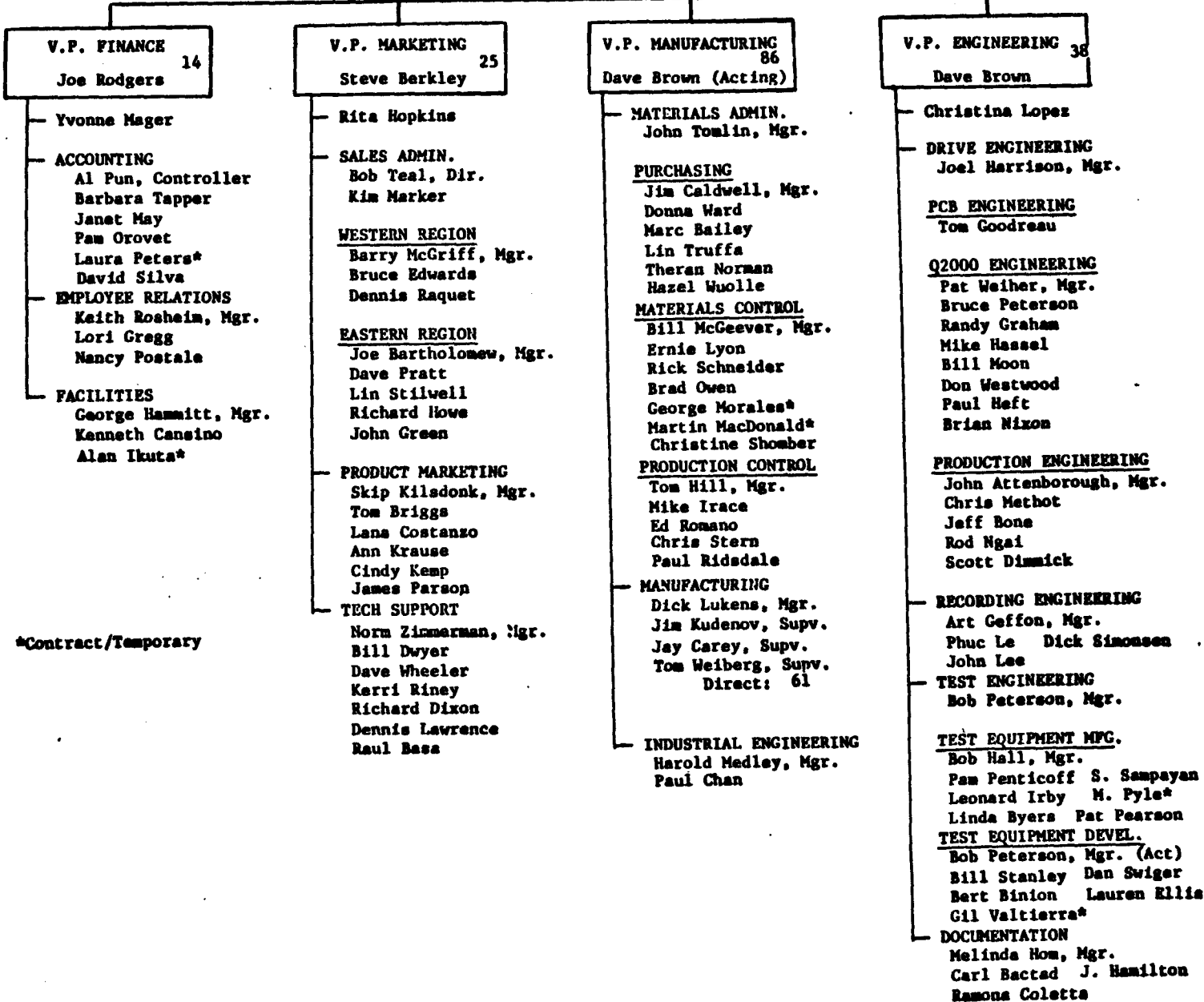
\*Contract/Temporary

Jim Patterson

12/21/81

QUALITY ASSURANCE

Dick Cowden, Mgr. 10  
 Bob Caynowa  
 Melanie Fulton  
 Hans Proskauer, Insp. Mgr.  
 Theresa Greer G. Gallizioli  
 Anna Curatolo Janine Monasella  
 Marion Schedler Rene Phung



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V.P. FINANCE 14  
 Joe Rodgers

- Yvonne Mager
- ACCOUNTING  
 Al Pun, Controller  
 Barbara Tapper  
 Janet May  
 Pam Orovet  
 Laura Peters\*  
 David Silva
- EMPLOYEE RELATIONS  
 Keith Rosheim, Mgr.  
 Lori Gregg  
 Nancy Postale
- FACILITIES  
 George Hammitt, Mgr.  
 Kenneth Casino  
 Alan Ikuta\*

V.P. MARKETING 25  
 Steve Berkley

- Rita Hopkins
- SALES ADMIN.  
 Bob Teal, Dir.  
 Kim Marker
- WESTERN REGION  
 Barry McGriff, Mgr.  
 Bruce Edwards  
 Dennis Raquet
- EASTERN REGION  
 Joe Bartholomew, Mgr.  
 Dave Pratt  
 Lin Stilwell  
 Richard Howe  
 John Green
- PRODUCT MARKETING  
 Skip Kilsdonk, Mgr.  
 Tom Briggs  
 Lana Costanzo  
 Ann Krause  
 Cindy Kemp  
 James Parson
- TECH SUPPORT  
 Norm Zimmerman, Mgr.  
 Bill Dwyer  
 Dave Wheeler  
 Karri Riney  
 Richard Dixon  
 Dennis Lawrence  
 Raul Bass

V.P. MANUFACTURING 86  
 Dave Brown (Acting)

- MATERIALS ADMIN.  
 John Tomlin, Mgr.
- PURCHASING  
 Jim Caldwell, Mgr.  
 Donna Ward  
 Marc Bailey  
 Lin Truffa  
 Theran Norman  
 Hazel Wuolle
- MATERIALS CONTROL  
 Bill McGeever, Mgr.  
 Ernie Lyon  
 Rick Schneider  
 Brad Owen  
 George Morales\*  
 Martin MacDonald\*  
 Christine Shomber
- PRODUCTION CONTROL  
 Tom Hill, Mgr.  
 Mike Irace  
 Ed Romano  
 Chris Stern  
 Paul Ridsdale
- MANUFACTURING  
 Dick Lukens, Mgr.  
 Jim Kudenov, Supv.  
 Jay Carey, Supv.  
 Tom Weiberg, Supv.  
 Direct: 61
- INDUSTRIAL ENGINEERING  
 Harold Medley, Mgr.  
 Paul Chan

V.P. ENGINEERING 38  
 Dave Brown

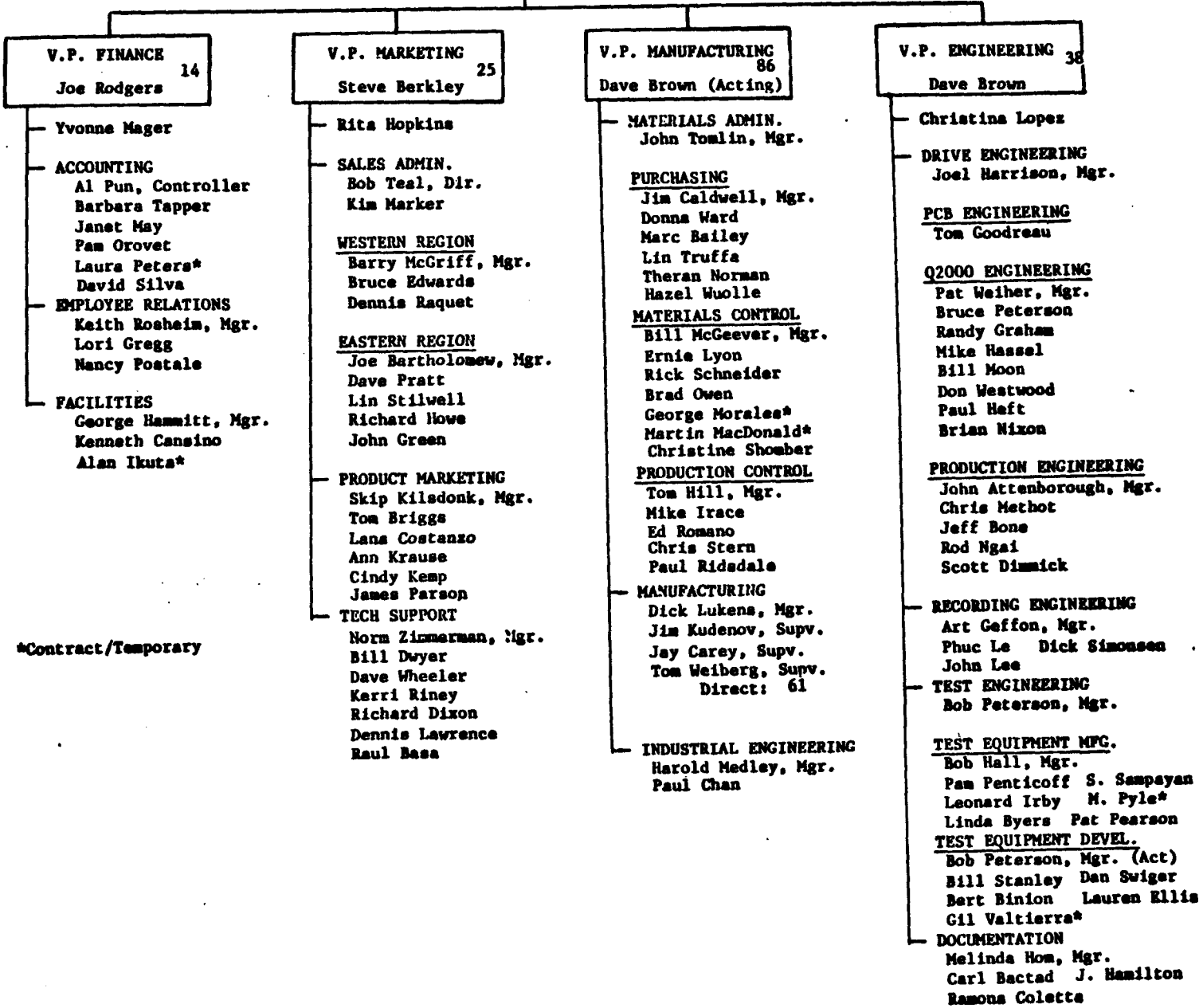
- Christina Lopez
- DRIVE ENGINEERING  
 Joel Harrison, Mgr.
- PCB ENGINEERING  
 Tom Goodreau
- Q2000 ENGINEERING  
 Pat Weiher, Mgr.  
 Bruce Peterson  
 Randy Graham  
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- PRODUCTION ENGINEERING  
 John Attenborough, Mgr.  
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 Art Geffon, Mgr.  
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 John Lee
- TEST ENGINEERING  
 Bob Peterson, Mgr.
- TEST EQUIPMENT MFG.  
 Bob Hall, Mgr.  
 Pam Penticoff S. Sampayan  
 Leonard Irby M. Pyle\*  
 Linda Byers Pat Pearson
- TEST EQUIPMENT DEVEL.  
 Bob Peterson, Mgr. (Act)  
 Bill Stanley Dan Swiger  
 Bert Binion Lauren Ellis  
 Gil Valtierra\*
- DOCUMENTATION  
 Melinda How, Mgr.  
 Carl Bactad J. Hamilton  
 Ramona Coletta



Jim Patterson

12/21/81

**QUALITY ASSURANCE** 10  
 Dick Cowden, Mgr.  
 Bob Caynova  
 Melanie Fulton  
 Hans Proskauer, Insp. Mgr.  
 Theresa Greer G. Gallizioli  
 Anna Curatolo Janine Monselle  
 Marion Schedler Rene Phung



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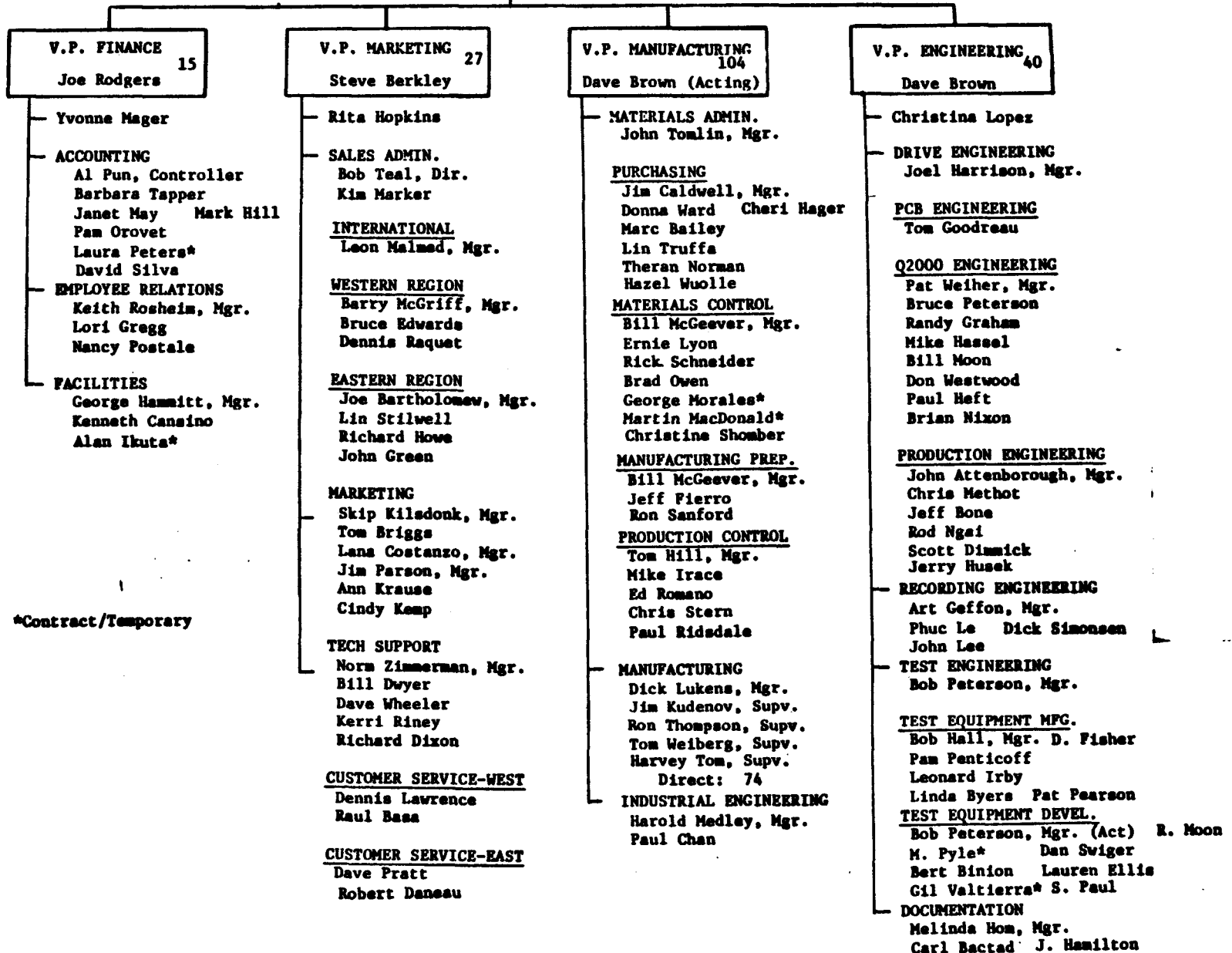
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Jim Patterson

QUALITY ASSURANCE 9

Dick Cowden, Mgr.  
 Bob Ceynowa  
 Melanie Fulton  
 Linda Bauer Tom Sueki  
 Theresa Greer  
 Anna Curatolo Janine Monselle  
 Rene Phung



\*Contract/Temporary

02/22/82

241  
Jim Pattelson

QUALITY ASSURANCE 12  
Dick Cowden, Mgr.  
Bob Ceynowa  
Melanie Fulton W. Dobrzynski  
Leonard Freedman Tom Sueki  
Rene Phung Ralph Peterson  
Anna Curatolo Janine Monselle  
Liberty Eslava Denise Perez

V.P. FINANCE 17  
Joe Rodgers

- Yvonne Mager
- ACCOUNTING  
Al Pun, Contoller  
Barbara Tapper  
Janet May Mark Hill  
Pam Orovet J. Bugma\*  
Laura Peters\*  
David Silva
- EMPLOYEE RELATIONS  
Keith Rosheim, Mgr.  
Lori Gregg  
Nancy Postale  
Laura Ontiveros\*
- FACILITIES  
George Hammitt, Mgr.  
Kenneth Cansino  
Duane Conn\*

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Steve Berkley

- Rita Hopkins
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Bob Teal, Dir.  
Kim Marker
- INTERNATIONAL  
Leon Malmed, Mgr.
- WESTERN REGION  
Barry McGriff, Mgr.  
Bruce Edwards  
Dennis Raquet
- EASTERN REGION  
Joe Bartholomew, Mgr.  
Lin Stilwell  
Richard Howe  
John Green
- MARKETING  
Skip Kilsdonk, Mgr.  
Tom Briggs  
Lana Costanzo, Mgr.  
Jim Parson, Mgr.  
Ann Krause  
Cindy Kemp
- TECH SUPPORT  
Norm Zimmerman, Mgr.  
Bill Dwyer  
Dave Wheeler  
Kerri Riney  
Richard Dixon
- CUSTOMER SERVICE-WEST  
Dennis Lawrence  
Raul Bass  
Glenda Brown
- CUSTOMER SERVICE-EAST  
Dave Pratt  
Robert Daneau

V.P. MANUFACTURING 140  
Dave Brown (Acting)

- MATERIALS ADMIN.  
John Tomlin, Mgr.
- PURCHASING  
Jim Caldwell, Mgr.  
Donna Ward Cheri Hager  
Marc Bailey  
Lin Truffa  
Theran Norman  
Hazel Wuolle
- MATERIALS CONTROL  
Bill McGeever, Mgr.  
Ernie Lyon Peggy Werner  
Rick Schneider  
Brad Owen  
George Morales  
Martin MacDonald  
Christine Shomber
- MANUFACTURING PREP.  
Bill McGeever, Mgr.  
Jim Contreras\*  
Ron Sanford F. Fleming\*
- PRODUCTION CONTROL  
Tom Hill, Mgr.  
Mike Irace Vala Cupp  
Ed Romano  
Chris Stern  
Paul Ridsdale  
Davida Rosenbaum
- MANUFACTURING  
Dick Lukens, Mgr.  
Jim Kudenov, Supv.  
Ron Thompson, Supv.  
Tom Weiberg, Supv.  
Harvey Tom, Supv.  
Direct: 106
- INDUSTRIAL ENGINEERING  
Harold Medley, Mgr.  
Paul Chan

V.P. ENGINEERING 43  
Dave Brown

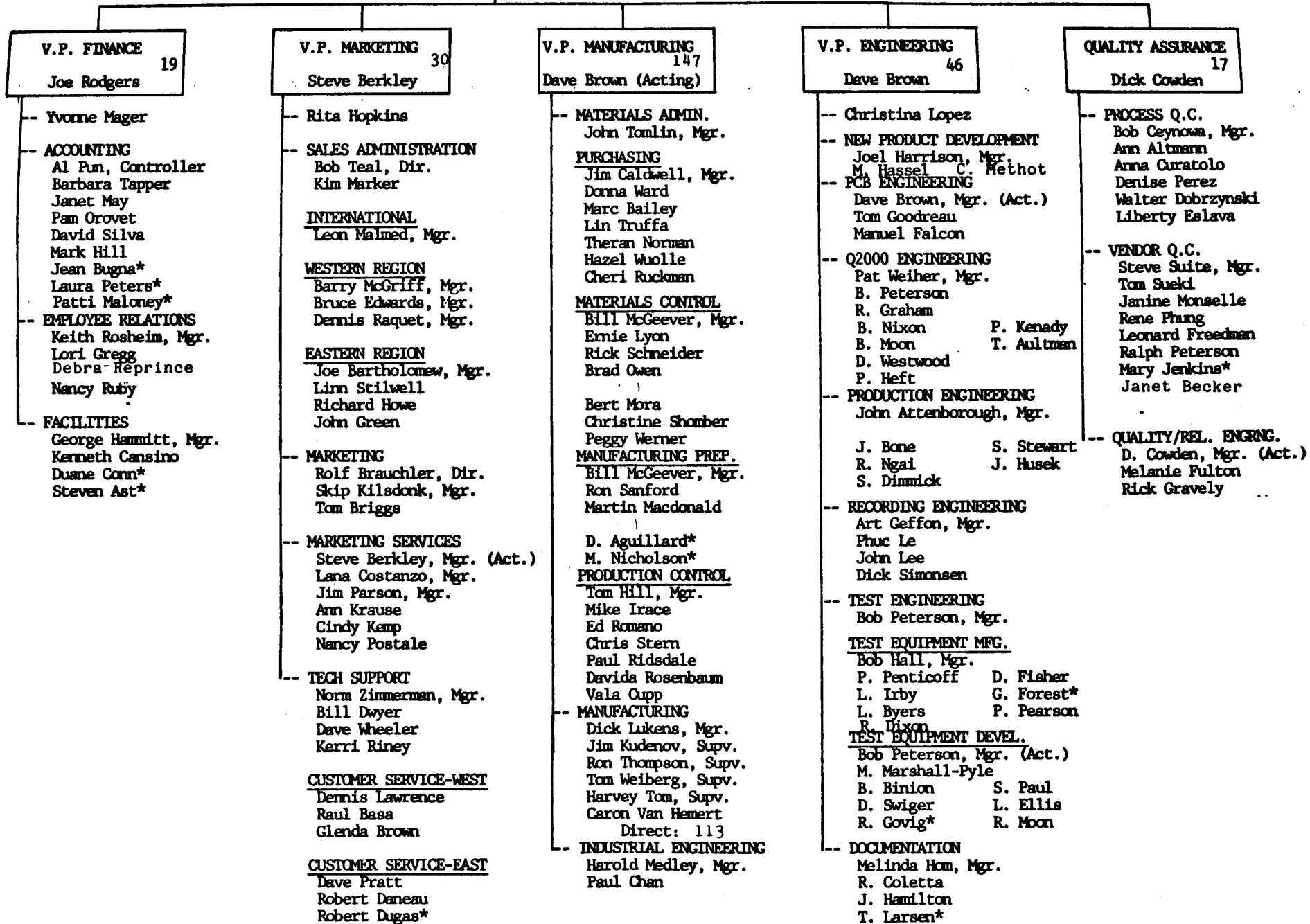
- Christina Lopez
- NEW PRODUCT DEVELOPMENT  
Joel Harrison, Mgr.
- PCB ENGINEERING  
D. Brown, Mgr. (Act.)  
Tom Goodreau
- Q2000 ENGINEERING  
Pat Weiher, Mgr.  
Bruce Peterson  
Randy Graham  
Mike Hassel  
Bill Moon  
Don Westwood  
Paul Heft  
Brian Nixon  
Pam Kenady Terry Aultman
- PRODUCTION ENGINEERING  
John Attenborough, Mgr.  
Chris Methot  
Jeff Bone  
Rod Ngai Steve Stewart  
Scott Dimmick  
Jerry Husek
- RECORDING ENGINEERING  
Art Geffon, Mgr.  
Phuc Le Dick Simonsen  
John Lee
- TEST ENGINEERING  
Bob Peterson, Mgr.
- TEST EQUIPMENT MFG.  
Bob Hall, Mgr. D. Fisher  
Pam Penticoff  
Leonard Irby  
Linda Byers Pat Pearson
- TEST EQUIPMENT DEVEL.  
Bob Peterson, Mgr. (Act) R. Moon  
M. Pyle Dan Swiger  
Bert Binion Lauren Ellis  
R. Govig\* S. Paul
- DOCUMENTATION  
Melinda How, Mgr.  
T. Larsen\* J. Hamilton  
Ramona Coletta

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260

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04/05/82

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V.P. FINANCE

19

Joe Rodgers

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  - Janet May
  - Pam Orovot
  - David Silva
  - Mark Hill
  - Jean Bugna\*
  - Laura Peters
  - Patti Maloney\*
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  - Keith Rosheim, Mgr.
  - Lori Gregg
  - Debra Reprince
  - Nancy Ruby
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  - George Hammitt, Mgr.
  - Kenneth Cansino
  - Duane Conn\*
  - Steven Ast\*

\*Contract

V.P. MARKETING

30

Steve Berkley

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- WESTERN REGION
  - Barry McGriff, Mgr.
  - Bruce Edwards, Mgr.
  - Dennis Raquet, Mgr.
- EASTERN REGION
  - Joe Bartholomew, Mgr.
  - Linn Stilwell
  - Richard Howe
  - John Green
- MARKETING
  - Rolf Brauchler, Dir.
  - Skip Kilsdonk, Mgr.
  - Tom Briggs
- MARKETING SERVICES
  - Steve Berkley, Mgr. (Act.)
  - Lana Costanzo, Mgr.
  - Jim Parson, Mgr.
  - Ann Krause
  - Cindy Kemp
  - Nancy Postale
- TECH SUPPORT
  - Norm Zimmerman, Mgr.
  - Bill Dwyer
  - Dave Wheeler
  - Kerri Riney
- CUSTOMER SERVICE-WEST
  - Dennis Lawrence
  - Raul Basa
  - Glenda Brown
- CUSTOMER SERVICE-EAST
  - Dave Pratt
  - Robert Daneau
  - Robert Dugas\*

V.P. MANUFACTURING

147

Dave Brown (Acting)

- MATERIALS ADMIN.
  - John Tomlin, Mgr.
- PURCHASING
  - Jim Caldwell, Mgr.
  - Donna Ward
  - Marc Bailey
  - Lin Truffa
  - Theran Norman
  - Hazel Wuolle
  - Cheri Ruckman
- MATERIALS CONTROL
  - Bill McGeever, Mgr.
  - Ernie Lyon
  - Rick Schneider
  - Brad Owen
- Bert Mora
- Christine Shomber
- Peggy Werner
- MANUFACTURING PREP.
  - Bill McGeever, Mgr.
  - Ron Sanford
  - Martin Macdonald
- D. Aguilard\*
- M. Nicholson\*
- PRODUCTION CONTROL
  - Tom Hill, Mgr.
  - Mike Irace
  - Ed Romano
  - Chris Stern
  - Paul Ridsdale
  - Devida Rosenbaum
  - Vala Cupp
- MANUFACTURING
  - Dick Lukens, Mgr.
  - Jim Kudenov, Supv.
  - Ron Thompson, Supv.
  - Tom Weiberg, Supv.
  - Harvey Tom, Supv.
  - Caron Van Hemert
  - Direct: 113
- INDUSTRIAL ENGINEERING
  - Harold Medley, Mgr.
  - Paul Chan

V.P. ENGINEERING

46

Dave Brown

- Christina Lopez
- NEW PRODUCT DEVELOPMENT
  - Joel Harrison, Mgr.
  - M. Hassel C. Method
- PCB ENGINEERING
  - Dave Brown, Mgr. (Act.)
  - Tom Goodreau
  - Manuel Falcon
- Q2000 ENGINEERING
  - Pat Weiher, Mgr.
  - B. Peterson
  - R. Graham
  - B. Nixon
  - B. Moon
  - D. Westwood
  - P. Heft
- PRODUCTION ENGINEERING
  - John Attenborough, Mgr.
- J. Bone
- R. Ngai
- S. Dimmick
- S. Stewart
- J. Husek
- RECORDING ENGINEERING
  - Art Geffon, Mgr.
  - Phuc Le
  - John Lee
  - Dick Simonsen
- TEST ENGINEERING
  - Bob Peterson, Mgr.
- TEST EQUIPMENT MFG.
  - Bob Hall, Mgr.
  - P. Penticoff
  - L. Irby
  - L. Byers
  - R. Dixon
- TEST EQUIPMENT DEVEL.
  - Bob Peterson, Mgr. (Act.)
  - M. Marshall-Pyle
  - B. Binion
  - D. Swiger
  - R. Govig\*
  - D. Fisher
  - G. Forest\*
  - P. Pearson
  - S. Paul
  - L. Ellis
  - R. Moon
- DOCUMENTATION
  - Melinda Hom, Mgr.
  - R. Coletta
  - J. Hamilton
  - T. Larsen\*

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17

Dick Cowden

- PROCESS Q.C.
  - Bob Ceynowa, Mgr.
  - Ann Altmann
  - Anna Curatolo
  - Denise Perez
  - Walter Dobrzynski
  - Liberty Eslava
- VENDOR Q.C.
  - Steve Suite, Mgr.
  - Tom Sueki
  - Janine Monselle
  - Rene Phung
  - Leonard Freedman
  - Ralph Peterson
  - Mary Jenkins\*
  - Janet Becker
- QUALITY/REL. ENGRNG.
  - D. Cowden, Mgr. (Act.)
  - Melanie Fulton
  - Rick Gravely

11/22/82

PRESIDENT

295

Jim Patterson

V.P. FINANCE

16

Joe Rodgers

Priscilla Raymundo

ACCOUNTING

Al Pun, Controller  
Barbara Tapper  
Janet May  
Suzanne Primrose  
David Silva  
Mark Hill  
Kim Eastman  
Jim McCanna  
Monika Jurak

EMPLOYEE RELATIONS

Keith Rosheim, Mgr.  
Lori Gregg  
Debra Reprince  
Laura Peters  
Nancy Battaglia

V.P. MARKETING

40

Steve Berkley

Rita Hopkins

SALES ADMINISTRATION

Jim Watson, Dir.  
Kim Marker

INTERNATIONAL

Leon Malmed, Mgr.

WESTERN REGION

Barry McGriff, Mgr.  
Bruce Edwards, Mgr.  
Dennis Raquet, Mgr.  
James Daly, Mgr.

EASTERN REGION

Joe Bartholomew, Mgr.  
Linn Stilwell  
Richard Howe  
John Green  
Dave Creech, Mgr.

MARKETING

Rolf Brauchler, Dir.  
Tom Briggs

CORPORATE COMMUNICATIONS

Lana Costanzo, Mgr.

MARKETING ADMINISTRATION

Jim Parson, Mgr.  
Ann Krause  
Cindy Kemp  
Nancy Postale  
Sueki Woodward

TECH SUPPORT

Norm Zimmerman, Mgr.  
Dave Wheeler  
Brad Owen

CUSTOMER SERVICE

Bill Dwyer, Mgr.

CUSTOMER SERVICE-WEST

Dennis Lawrence  
Raul Basa  
Glenda Brown  
Kerri Mora  
Diane Fraedrich  
Himmat Bhatti\*  
Kalala Leilus\*  
Stuart Hay\*  
Mike Varney\*  
Duc Pham\*

CUSTOMER SERVICE-EAST

Dave Pratt  
Robert Daneau  
Brian Bartholomew\*  
Larry Blynn\*

QUALITY ASSURANCE

16

Dale Hiatt, Mgr.(ACT.)

SPECIAL PROJECTS

Dick Cowden, Mgr.

PROCESS Q.C.

Bob Ceynowa, Mgr.  
Ann Altmann  
Anna Curatolo  
Walt Dobrzynski  
Liberty Eslava  
Jan Howard-Field

VENDOR Q.C.

Steve Suite, Mgr.  
Tom Sueki  
Rene Phung  
Leonard Freedman  
Ralph Peterson  
Janet Becker  
Dennis McGough

QUALITY/REL. ENG.

Melanie Fulton  
Rick Gravely

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**PRESIDENT**  
Jim Patterson 295

**V.P. MANUFACTURING**

Dale Hiatt

166

Chris Lopez

MATERIALS ADMIN.  
John Tomlin, Mgr.

PURCHASING  
Jim Caldwell, Mgr.  
Donna Ward  
Marc Bailey  
Linn Truffa  
Cheri Ruckman  
Steve Sprague  
Ralph Rayfield  
Larry Maxwell\*

MATERIALS CONTROL

Bill McGeever, Mgr.  
Ernie Lyon  
Rick Schneider  
Bert Mora  
Chris Shomber  
John Ballin

MANUFACTURING PREP.

Bill McGeever, Mgr.  
Ron Sanford  
Steve Hart  
Martin Macdonald  
John Reyes  
Wilson Lazar  
Dieter Miramontes  
Clayton Hahn

PRODUCTION CONTROL

Tom Hill, Mgr.  
Mike Irace  
Ed Romano  
Chris Stern  
Paul Ridsdale  
Davida Rosenbaum  
Vala Cupp  
Doug Breen  
Chris Neumann  
John Gabel\*

MANUFACTURING

NEW PRODUCTS PROD.

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Jim Kudenov, Supv.

PRODUCTION

Ed Prijatelj, Mgr.  
Tom Weiberg, Supv.  
Steve McAlpine, Supv.  
Harvey Tom, Supv.  
Candy Van Hemert  
Dennis Bellew\*

DIRECT: 108  
10\*  
118

INDUSTRIAL ENGINEERING

Harold Medley, Mgr.  
Paul Chan

FACILITIES

George Hammitt, Mgr.  
Joe Cansino  
Glenn Harrison\*  
Dennis Johnson\*

**V.P. ENGINEERING**

Dave Brown

57

QUINT DEVELOPMENT

Joel Harrison, Mgr.  
Brian Nixon  
Chak Leung  
Rod Ngai  
Phuc Le  
Vinny Conditto  
Dick Simonsen  
Randy Graham

QUEST DEVELOPMENT

Art Geffon, Mgr.  
Bill Moon  
Ron Moon  
Don Westwood  
Bruce Peterson  
David Olson  
Paul Moore\*

PCB ENGINEERING

Tom Goodreau  
Manual Falcon

Q2000 ENGINEERING

Pat Wether, Mgr.  
Pam Kenady  
Mike Hassel  
Paul Heft  
Tom Cooper  
Chris Methot  
John Lee  
Terry Aultman  
Mike Machado

PRODUCTION ENG.

John Attenborough, Mgr.  
Geoff Bone  
Scott Dimmick  
Steve Stewart  
Jiri Husek  
Judy Gonzalez  
David Loader

RECORDING ENG.

Art Geffon, Mgr.

TEST ENGINEERING

Bob Peterson, Mgr.

TEST EQUIPMENT MFG.

Bob Hall, Mgr.  
Pam Penticoff  
Len Irby  
Linda Byers  
Richard Dixon  
Dana Fisher  
Patty Fent  
Chris Millsaps

TEST EQUIPMENT DEVEL

Bob Peterson, Mgr. (Act)  
Marianne Marshall-Pyle  
Bert Binion  
Dan Swiger  
Ron Govig  
Steve Paul  
Lauren EHIS  
David Besser

DOCUMENTATION

Melinda Hom, Mgr.  
Ramona Coletta  
Judi Hammond  
Tom Larsen  
Nancy Ruby  
Tho Van Le\*  
Mark Gingell\*

1980

1981

1982



# QUANTUM

February 1980

## 3 Leave Shugart; May Start Firm

SUNNYVALE, Calif. — Shugart Associates' manager of product management, James M. McCoy, and two other Shugart product managers have left, reportedly to start a company of their own.

Mr. McCoy, who joined Shugart about 2 years ago from Verbatim Corp., had product line marketing responsibilities for all Shugart floppy and fixed disk drives. He reported to Shugart marketing vice-president W. Ferrell Sanders.

Also leaving Shugart within the past week were Joel Harrison, project manager on the company's 8-inch Winchester SA/1000, and Dave

Brown, former engineering director on Shugart's mini-floppy line. Mr. Harrison had joined Shugart from Hewlett-Packard Co., and Mr. Brown from Memorex.

Shugart officials last week said none of the three have yet been replaced.

Mr. McCoy became manager of product management last year when then director of product management, George H. Sollman, left to join Xerox, the parent firm.

Mr. McCoy was not available for comment last week. Sources, however, said the three are expected to join in a new operation.

Electronic News

2/18/80

Computer  
Systems News

2/18/80

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Three officials of Shugart Associates left the firm last week to start a new disk drive company. No details yet on the technology or media size, but industry sources say the three clearly have the skills to make either a 5-inch Winchester or floppy disk drive. They are: James McCoy, previously manager of product management; David Brown, former director of floppy disk engineering, and developer of the SA400 minifloppy, and Joel N. Harrison, previously engineering manager and project engineer for the SA1000.

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# Shugart Spin-out to Enter 8-Inch Mkt.

ELECTRONIC NEWS, MONDAY, MARCH 3, 1980

By JEFF MOAD

SAN JOSE, Calif. — Quantum Corp., a spin-out from Shugart Associates, which includes former Shugart manager of product management James M. McCoy, has been formed to enter the low-cost 8-inch fixed disk drive business against Shugart and Memorex, it has been learned.

President of the start-up company, which has temporary headquarters here, is James L. Patterson, former vice-president of engineering at System Industries Corp. Others at Quantum include former Shugart director of floppy disk engineering David A. Brown, former Shugart 8-inch engineering manager Joel Harrison, and former Shugart director of manufacturing engineering Harold C. Medley.

The company first surfaced last month when it was learned that Mr. McCoy and several others had left Shugart and were understood to be forming a company of their own (EN, Feb. 18). At that time, however, it was not known what type of business was planned.

Mr. McCoy will head Quantum's marketing effort, while Mr. Medley will oversee manufacturing. Mr. Brown will be responsible for engineering, and Messrs. Harrison and Daniels will report to Mr. Brown.

Mr. McCoy said first delivery of the Quantum 8-inch product will be in the second half of 1980. He said volume production of the product will begin by the start of 1981.

#### Interested in Financing

Mr. McCoy said Quantum officials are financing the company but that financing arrangements with venture capital companies and others are expected to be set soon. Mr. McCoy indicated that several small computer manufacturers and other potential OEM customers of the low-cost 8-inch product have expressed interest in financing Quantum.

Mr. McCoy recently left Shugart shortly after Messrs. Harrison and Brown left the company. Speculation at that time touched on the possibility that Quantum would come up with a 5¼-inch fixed drive. Another Shugart spin-out, Shugart Technology, already has announced a 5½-inch product, and Shugart and Memorex are believed to be studying the 5¼-inch market.

Mr. McCoy last week said that, while the 8-inch fixed disk drive will be Quantum's only product initially, it also plans to consider smaller fixed disk drives.

Mr. McCoy said that while over 20 different companies have indicated they will come up with an 8-inch fixed disk drive product, most of the competition seems to have a higher cost, higher capacity, closed loop technology product in mind. Quantum, said Mr. McCoy, will compete with Shugart and Memorex in the low-cost 5- and 10-megabyte 8-inch market where high volume production will be at a premium.

#### 6 Months Behind

Both Shugart and Memorex are believed to be pushing for eventual volume production rates of 500 8-inch drives daily. Memorex, however, is believed to be at least 6 months

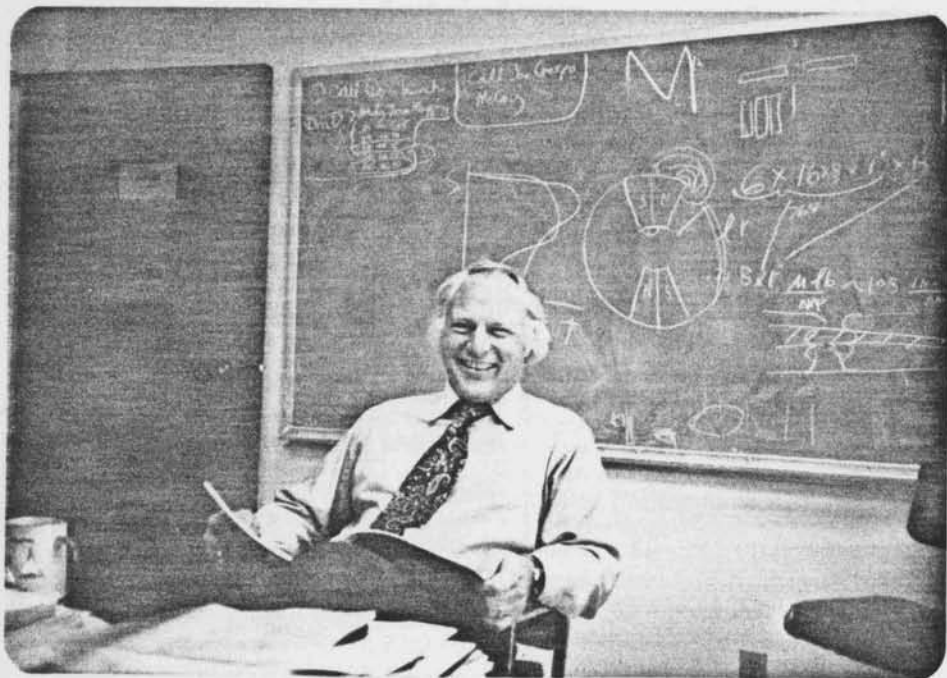
behind in its 8-inch program. Shugart recently disclosed delivery of its 8-inch disk drive to Wang Labs, which is expected to be a major customer.

Mr. McCoy claimed that Quantum's engineering, marketing and manufacturing officials "have been in on the introduction of every new Shugart product, including the SA4000 and SA1000." Mr. McCoy predicted that "all of the ingredients are here in the

8-inch market that were there when floppies were undergoing their greatest growth." He said the 8-inch market will grow into a one-half million to one million-unit per year market within 5 years.

"We don't intend to bring any of the competition to their knees, but if it goes like many marketing experts predict, the 8-inch market will be spectacular," he said.

Mr. McCoy agreed, however, that the low-end 8-inch market will be highly price-competitive from the outset. Prices will be tied very tightly to costs. There will be no free rides or attractive umbrellas," Mr. McCoy said.



## Ex-System Industries, Shugart Execs Establish 8-Inch Winchester Company

By Paul E. Schindler Jr.

SAN JOSE, CALIF. — A former System Industries, Inc., vice-president and five ex-Shugart Associates executives have started an 8-inch Winchester disk drive firm aimed at competing in the "super-low-cost" market segment.

James Patterson, former System Industries engineering vice-president and now president of the new firm, called Quantum Corp., sees the Winchester market "dividing into two segments: low cost and super-low cost. Only Shugart and Memorex are in the super-low-cost segment."

"It may look like a crowded marketplace," said James McCoy, who recently left his Shugart post as manager of product management (CSN, Data Flow, Feb. 18) to become Quantum's head of marketing. "There are at least 28 other firms in it. But we don't aim to be number 29; we are going to be number three in the lowest-cost segment."

Joining Patterson and McCoy are the other former Shugart executives: David Brown, previously floppy disk engineering director, who will be in charge of engineering, and Harold C. Medley, who had been director of manufacturing, engineering and development and will now handle manufacturing.

Additionally, Joel N. Harrison, former engineering manager and project engineer for Shugart's SA1000 line, and Donald V. Daniels, previously Shugart's engineering manager for large fixed-disk drives, will serve on Quantum's engineering team.

First deliveries, according to Patterson, are expected in the second half of this year, with volume production by 1981.

The firm temporarily is based



McCoy: Aiming For No. 3

in headquarters here but plans to establish permanent quarters in the Santa Clara Valley, Patterson noted.

Quantum's founders are all experts in production of "small, low-cost electromagnetic peripherals," according to Patterson, who said the firm eventually will produce a family of drives, perhaps including a less-than-8-inch Winchester.

There will be no new, innovative technology in Quantum's products, according to McCoy, who said, "The key to Shugart's success was to pull together mature technologies for a high-volume, low-cost operation."

Existing technologies can still be combined in ways that will "improve cost-performance," he predicted, but he declined to give details.

According to McCoy, Quantum's founders—most of whom have worked at IBM and Memorex—are "in their third-generation of low-cost, fixed-disk products."

Financing for the new firm is not completed, according to Patterson, who said negotiations are underway with venture capital

firms and "innovative sources" of alternative financing. "We don't think money will be a problem," he said.

Product specifications are not completed, McCoy said, but the first drive will be in the low-capacity range. The interface has not been set, he added, but "if ANSI wins, much of the industry will go with it." He said the timing of Quantum's market entry will "allow us to position ourselves on a winning course" with regard to interfaces.

Quantum will not have a prototype at May's NCC, according to McCoy, but the firm will have "a presence" at the show.

Patterson said the search for an appropriate product began last September. "We examined many possibilities," he said.

He said he didn't want to detail the rejected options because "we concluded that none of them was a dead end."

Selecting the 8-inch drive market was a "difficult decision," according to Patterson, in view of the wide range of opportunities in peripherals. "All of them are boom markets, but all of them have big guns trained on them," he said.

McCoy and Patterson said they did not expect any confusion between their firm and the similarly named Quantum Science Corp., a marketing research firm, which performs no manufacturing.

Reminded of the high infant mortality of firms in the peripherals business, McCoy recalled the situation in floppy disks in 1974. "The projections of who would win then and who actually did turned out to be quite different," he said.

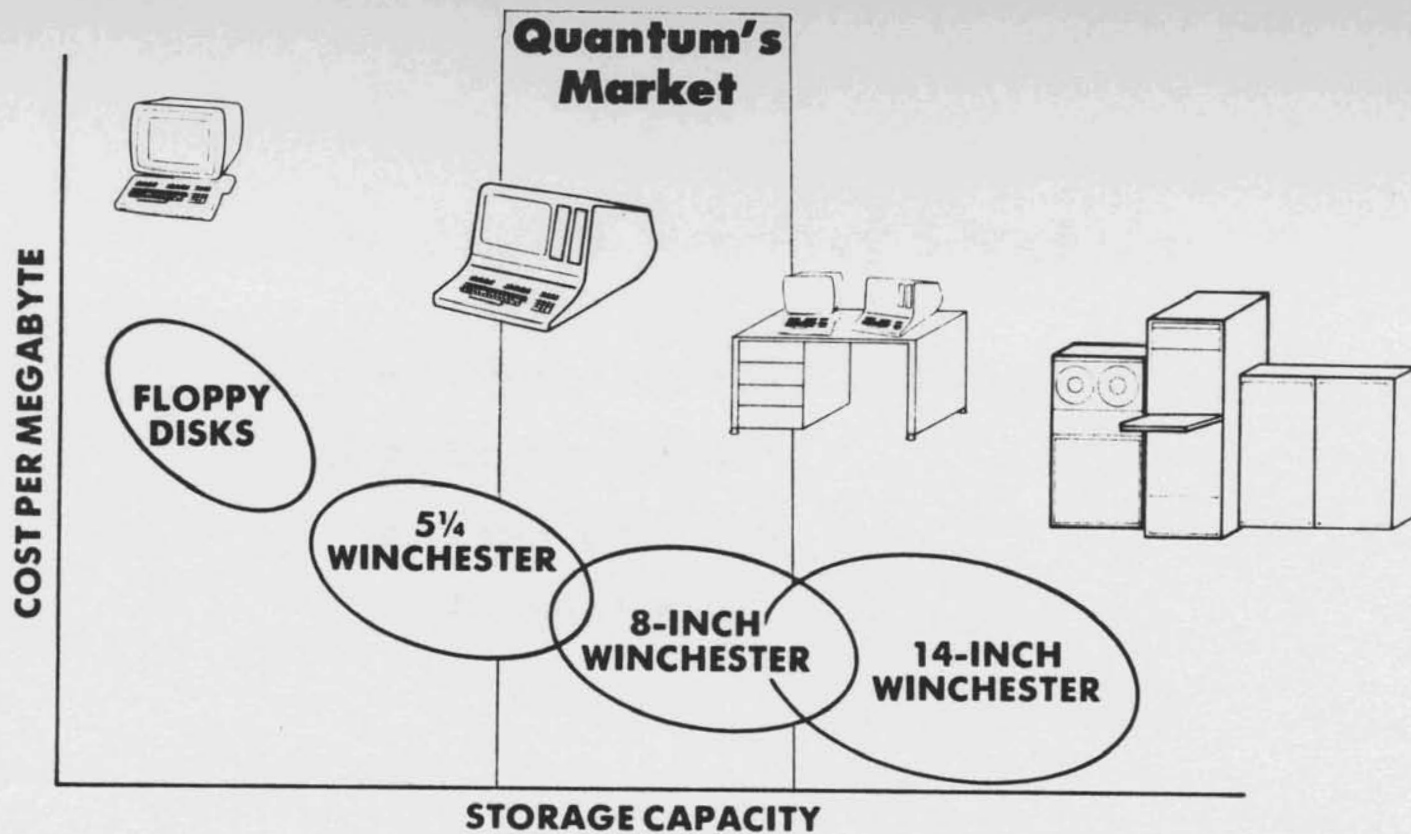
"Our market will range from very healthy to spectacular," he predicted.

**QUANTUM'S FIRST STATIONERY**

**QUANTUM CORPORATION**  
**2150 BERING DRIVE**  
**SAN JOSE, CALIF. 95131**

**QUANTUM**

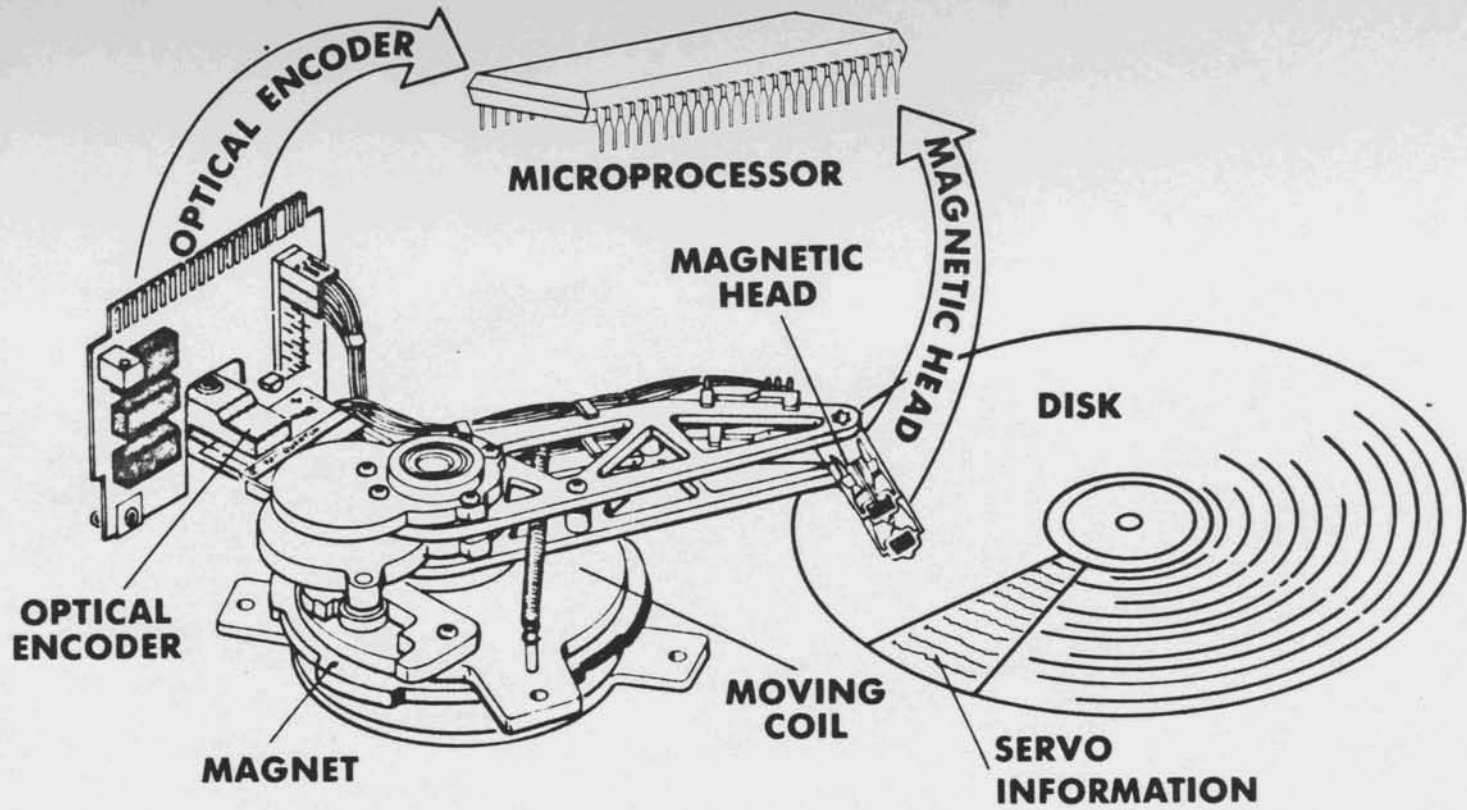
# Disk Drive Market



## **Quantum's Product Strategy**

- **High Capacity Storage**
- **Compatibility**
- **Cost Effective**
- **Availability**

# Q2000 Series







Internal design of 30 MByte Q2000 8-inch fixed disk drive (bubble removed) from Quantum Corp.



Q2040 40-megabyte 8-inch fixed disk drive from Quantum Corp.

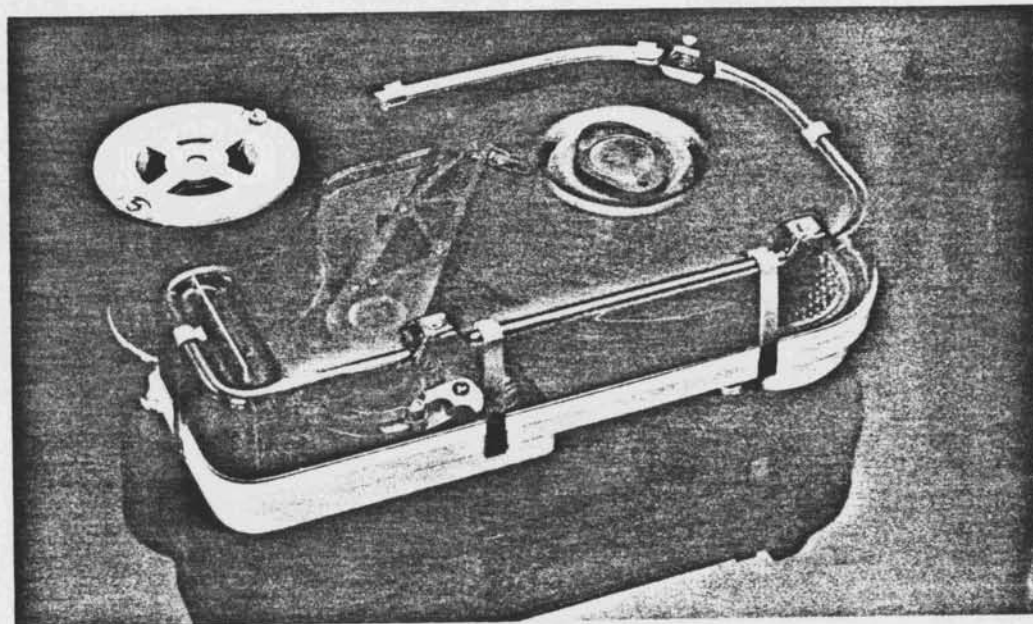
## Quantum 2000 series low-cost 8-inch fixed disk drives

The Quantum 2000 is a family of 10-, 20- and 30-megabyte 8-inch fixed disk drives in an 8-inch floppy-size package. These reliable Winchester drives provide OEMs with a low-cost upgrade of floppy disk and lower-capacity Winchester-based systems.

Q2000 drives are fully compatible with Shugart Associates' 5- and 10-megabyte SA1000 drives, yet provide two to three times the storage capacity, at a lower cost per megabyte.

The higher capacity and low cost are the result of a new track positioning system. Quantum uses a rotary moving coil actuator and temperature compensation servo instead of a conventional stepper motor actuator. This provides twice the track density and per-disk capacity, without increasing cost.

Interface, power supply and



An optional single-board intelligent controller is available for operating the Q2000 with floppy and data cartridge drives.

A data separator board is optional with Q2000 drives. This provides considerable savings for OEMs who need only one data separator in multiple drive systems. Quantum will supply circuit board design and artwork at no charge for OEMs who wish to build data separators in-house.

### Key Features

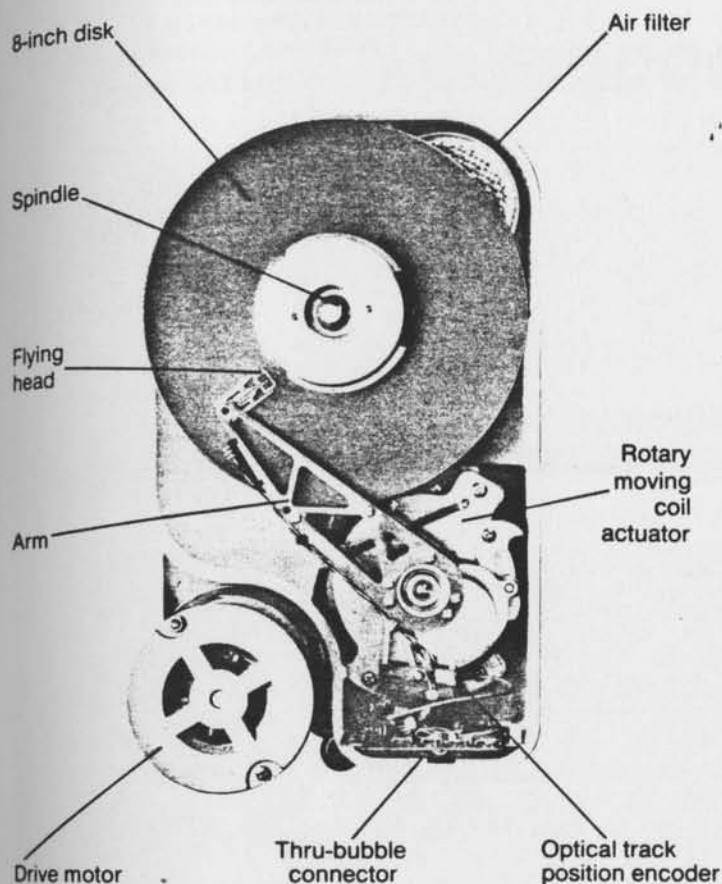
- 10.7, 21.3 and 32.0 megabyte (unformatted) storage capacities
- Full interface, format and power supply compatibility with Shugart 5- and 10-megabyte SA1000 8-inch fixed disk drives
- Physical dimensions and mounting holes identical to those of SA1000 and standard 8-inch floppy disk drives
- Lowest-cost fixed disk drives in the 10- to 30-megabyte capacity range
- 4.34 megabits per second transfer rate
- Proven Winchester head and media technology
- Rotary moving coil actuator with temperature compensation servo
- Faster access times than stepper actuator drives
- Fail-safe head landing and shipping zone
- Microprocessor control for drive logic and positioner system—includes self-diagnostics
- Optional data separator for system design flexibility and lowest cost
- Optional single-board intelligent controller to operate Q2000 with industry-standard floppy and data cartridge drives



mounting requirements are fully compatible with the Shugart SA1000 and with industry-standard 8-inch floppy drives. Drive control and data signals use the same pin assignments as the SA1000 and compatible floppy drives, allowing daisy-chaining of fixed and floppy drives.

DC voltage requirements are identical to those for SA1000, standard floppy drives and data cartridge streamers. The same power supply can be used with Quantum 2000 and various back-up drive options.

# Q2000 8-inch fixed disk drives



## Recording Media

- Winchester lubricated magnetic iron oxide coating on a 200mm diameter aluminum substrate
- 5.33 megabytes of data per disk surface
- 512 tracks per disk surface

## Read/Write Heads

- Winchester (IBM 3340) type flying heads
- Low mass/low load force
- Reliable contact start/stop operation
- Heads return to a "fail-safe landing zone" during power-off and shipping

## Air Filtration System

- Disks and read/write heads fully sealed in clean air chamber
- Recirculating air system with absolute filter
- Absolute breather air filter permits pressure equalization with ambient air without contamination

## Rotary Moving Coil Actuator

- Pure torque motor with balanced forces to maximize bearing life
- Simple construction
  - Ring magnet and two flat-plate magnetic structure
  - Single-plane moving coil
  - Two-bearing structure

—Two-phase driver electronics

- Statically-balanced structure for high mechanical stability and maximum vibration resistance
- Low power consumption
- Average access time 10% to 25% faster than stepper actuators

## Optical Track Position Encoder

- Track positioning resolution better than 40 micro inches
- Reliable glass reticle/LED/photodiode technology

## Temperature

### Compensation Servo

- Direct track position feedback from disk surface
- Transparent to controller and host system
- Track location coding embedded between last inter-record gap and index pulse
  - Data rate, track capacity and unrestricted format same as SA1000
  - SA1000 compatibility retained by increasing flux reversal density 4% and reducing RPM 4%
- Microprocessor-controlled calibration of optical track position reference from servo feedback once each revolution

## Specifications

### Performance Specifications

	Q2010	Q2020	Q2030
Capacity			
Unformatted			
per drive	10.66 Mb	21.33 Mb	32.00 Mb
per surface	5.33 Mb	5.33 Mb	5.33 Mb
per track	10.40 Kb	10.40 Kb	10.40 Kb
Formatted (MFM)			
per drive	8.40 Mb	16.80 Mb	25.20 Mb
per surface	4.20 Mb	4.20 Mb	4.20 Mb
per track	8.20 Kb	8.20 Kb	8.20 Kb
per sector	256 bytes	256 bytes	256 bytes
sectors/track	32	32	32
Transfer rate	4.34 Mbits/sec	4.34 Mbits/sec	4.34 Mbits/sec
Access time			
Track to track	15 ms	15 ms	15 ms
Average	50 ms	55 ms	60 ms
Maximum	100 ms	100 ms	100 ms
Avg. latency	10 ms	10 ms	10 ms

### Functional Specifications

	Q2010	Q2020	Q2030
Rotational speed	3000 RPM	3000 RPM	3000 RPM
Recording density	6600 bpi	6600 bpi	6600 bpi
Flux density	6600 fci	6600 fci	6600 fci
Track density	345 tpi	345 tpi	345 tpi
Cylinders	512	512	512
Tracks	1024	2048	3072
Read/Write heads	2	4	6
Disks	1	2	3
Index	1	1	1

### Physical Specifications

#### Environmental limits

- Ambient temperature = 50° to 115°F (10° to 46°C)
- Relative humidity = 8% to 80%
- Maximum wet bulb = 78° non-condensing

#### AC power requirements

- 50/60 Hz ± 0.5 Hz
- 100/115 VAC installations = 90–127V at 1.0A typical
- 200/230 VAC installations = 180–253V at 0.5A typical

#### DC voltage requirements

- +24 VDC ± 10% 1.25A typical
- +5 VDC ± 5% 1.5A typical
- 5 VDC ± 5% (–7 to –16 VDC optional) 0.2A typical

#### Mechanical dimensions

- Height = 4.62 in. (117.3 mm)
- Width = 8.55 in. (217.2 mm)
- Depth = 14.25 in. (362.0 mm)
- Weight = 17 lbs. (7.7 Kg)

Heat dissipation = 235 BTU/hour typical (70 watts)

### Reliability Specifications

MTBF: 8,000 POH typical usage

PM: not required

MTTR: 30 minutes

Component life: 5 years

#### Error rates:

- Soft read errors: 1 per 10<sup>10</sup> bits read
- Hard read errors: 1 per 10<sup>12</sup> bits read
- Seek errors: 1 per 10<sup>6</sup> seeks

# QUANTUM

2150 Bering Drive San Jose, California 95131 (408) 262-1100

CALIFORNIA CANADIAN BANK

JUL 80

44346

TRUST DEPARTMENT

340 PINE STREET - SAN FRANCISCO, CALIFORNIA  
700 SOUTH FLOWER - LOS ANGELES, CALIFORNIA  
770 B STREET - SAN DIEGO, CALIFORNIA  
San Mateo Office

11-27  
1210

C.C.B. \$9,000.00 CTS

• QUANTUM CORPORATION

DATE

AMOUNT

June 9, 1980

\$9,000.00

*[Signature]*

V-387

⑆044346⑆ ⑆1210⑆0027⑆9089 530604⑆

CASH RESERVE MANAGEMENT, INC.

DATE June 10, 1980

No. 012-0099986

F-1  
TFC

PAY TO THE ORDER OF

Quantum Corporation

AMOUNT

\$9000.00

nine thousand even

DOLLARS

MINIMUM OF \$500.00

NEW ENGLAND MERCHANTS NATIONAL BANK  
BOSTON, MASSACHUSETTS  
Present at Corporate Agency Department

*[Signature]*

1120014230  
LEONARD G BAKER JR  
73 15TH AVE  
ATHERTON CA 94025

Purchase of 3000 shares  
of stock

⑆0120099986⑆ ⑆01000138⑆ 0000-4192⑆

SUTTER HILL VENTURES  
3000 EL CAMINO REAL  
PALO ALTO, CALIFORNIA 94306

BANK OF AMERICA  
STANFORD FINANCIAL SQUARE OFFICE  
PALO ALTO, CALIFORNIA

4370 11-35/1210

June 10, 1980

\$600,000.00

REGISTERED 6000000dol's00cts  
RD-23868

THE ORDER

QUANTUM CORPORATION

*[Signature]*

⑆121000358⑆ 01188-06155⑆

SECURITY PACIFIC NATIONAL BANK

SAN FRANCISCO MAIN OFFICE  
ONE EMBARCADERO CENTER, SAN FRANCISCO, CA 94111

No 15289554

DATE

JUNE 9, 1980

11-4  
1210

PAY TO THE ORDER OF

\*\*\*\*\*QUANTUM CORPORATION\*\*\*\*\* \$15,000.00\*\*\*\*\*

SPNB \$15,000 AND 00/100

*Aili D. Walter*  
AUTHORIZED SIGNATURE

⑆15289554⑆ ⑆121000044⑆512⑆560242⑆

KLEINER, PERKINS, CAUFIELD & BYERS II No. 1001  
2 Embarcadero Center, Suite 2900  
San Francisco, CA 94111

DATE June 10, 1980

11-35  
1210

PAY TO THE ORDER OF QUANTUM CORPORATION \$774,999.00  
& 00/100

Seven hundred seventy-four thousand nine hundred ninety-nine DOLLARS

BANK OF AMERICA

SAN ANTONIO BRANCH  
384 SO. SAN ANTONIO RD., MOUNTAIN VIEW, CA 94042

*Frank J. Caufield*

⑆121000358⑆ 04488⑆12307⑆

MAYFIELD III

2200 SAND HILL RD.  
MENLO PARK, CALIF. 94025

0366

June 10 1980

11-35  
1210

PAY TO THE ORDER OF

QUANTUM CORPORATION

\$500,001.00

Five hundred thousand one dollars and no/100 DOLLARS

BANK OF AMERICA

STANFORD BRANCH  
383 STANFORD SHOPPING CENTER  
STANFORD, CALIF. 94305

*Herb Stulka*  
*J. J. Meyer*

⑆000355⑆ ⑆121000358⑆ 05706⑆06887⑆

SMALL BUSINESS ENTERPRISES COMPANY  
555 CALIFORNIA STREET  
SAN FRANCISCO, CALIFORNIA 94104

1426

11-34  
1210

June 9 19 80

TO THE ORDER OF Quantum Corporation

\$ 699,999.00

699999 00/100

DOLLARS

SMALL BUSINESS ENTERPRISES COMPANY  
GENERAL ACCOUNT


BANK OF AMERICA  
MARKET-NEW MONTGOMERY OFFICE  
SAN FRANCISCO, CALIFORNIA 94108

BY *Steven L. Merrill*  
AUTHORIZED SIGNATURE

BY *W.J. Lubner*  
AUTHORIZED SIGNATURE

⑆1210⑉0034⑆ 04081⑉00079⑈

CONTINENTAL ILLINOIS VENTURE CORPORATION  
231 S. LA SALLE ST.  
CHICAGO, ILL. 60604

 CONTINENTAL BANK  
MEMBER FDIC

4324

2-3  
710

PAY TWO HUNDRED THOUSAND ONE AND 00/100-

June 10, 1980 \$200,001.00

DATE AMOUNT

TO THE ORDER OF QUANTUM CORPORATION

CONTINENTAL ILLINOIS VENTURE CORPORATION

*William J. Lubner*  
*William J. Lubner*

⑆004324⑈ ⑉071000039⑆ 72⑈54733⑈

B. J. CASSIN  
ISABEL B. CASSIN  
26108 ALTADENA DRIVE 941-1839  
LOS ALTOS HILLS, CA 94022

3895

June 9, 1980 11-35  
1210

PAY TO THE  
ORDER OF

*Quantum Corp*

\$ 75,000

*Seventy five thousand and no/100* DOLLARS

**BANK OF AMERICA**

SUNNYVALE MAIN OFFICE  
444 SOUTH MATHILDA AVENUE  
SUNNYVALE, CALIF. 94086

*[Signature]*

MEMO

⑆ 1210003581 3895 ⑆ 00412 ⑆ 04622 ⑆

**CALIFORNIA PARTNERS**

PH. 415-493-5600

TWO PALO ALTO SQUARE, SUITE 700  
PALO ALTO, CALIF. 94304

1018

June 10 1980 11-24/285  
1210

PAY  
TO THE  
ORDER OF

Quantum Corporation

\$ 99,999.00

Ninety-Nine Thousand Nine Hundred Ninety-Nine and no/100----- DOLLARS



STANFORD INDUSTRIAL PARK OFFICE  
**WELLS FARGO BANK**  
NATIONAL ASSOCIATION  
505 CALIFORNIA AVENUE  
PALO ALTO, CALIFORNIA 94306

BY DRAPER ASSOCIATES, INC.

FOR 33,333 shs. Conv. Pfd. Srs. A  
stock

By *[Signature]*  
William H. Draper III,  
President

⑆ 001018 ⑆ ⑆ 1210002481 0285 049854 ⑆

PAUL M. WYTHES  
258 PARK LANE  
ATHERTON, CA 94025  
PH. 415-327-3311, CDL J0516688

0318

June 5 1980 11-24/285  
1210

*Pay to the Order of Quantum Corporation*  
*Fifty thousand and no/100* Dollars

**Wells Fargo Bank**

STANFORD INDUSTRIAL PARK OFFICE  
505 CALIFORNIA AVE., PALO ALTO, CA 94306

*Series A Pfd Stock*  
*memo 3-2/54 for 1000 shs*

Signed *[Signature]*



⑆ 1210003181 0285 076235 ⑆



FROM THE ACCOUNT OF

11-24/285  
1210(8)

June 10 19 80

PAY TO  
THE ORDER OF

Quantum Corporation

\$6,999<sup>00</sup>/<sub>100</sub>

Six Thousand Nine Hundred Ninety-Nine DOLLARS

STANFORD INDUSTRIAL PARK OFFICE  
505 CALIFORNIA AVE. PALO ALTO, CA 94306

**WELLS FARGO BANK**

NATIONAL ASSOCIATION

*W. M. Glendon*

*Not valid unless signed*

⑆121000248⑆ 0285 484861⑈

RECEIPT FOR CHECK

James L. Patterson hereby certifies that:

1. He is the president of Quantum Corporation, a California corporation (the "Company").

2. He acknowledges receipt of a check in the amount of \$ 75,000 in payment for 25,000 shares of Series A Preferred Stock from B. J. Cassin.

Dated: June 10, 1980

  
James L. Patterson, president

RECEIPT FOR CHECK

James L. Patterson hereby certifies that:

1. He is the president of Quantum Corporation, a California corporation (the "Company").
2. He acknowledges receipt of a check in the amount of \$ 200,001 in payment for 66,667 shares of Series A Preferred Stock from Continental Illinois Venture Corporation.

Dated: June 10, 1980

  
James L. Patterson, president