ACKNOWLEDGEMENT

This oral history is part of a series supported by grants from the Gordon and Betty Moore Foundation. This series is an important resource for the history of semiconductor electronics, documenting the life and career of Gordon E. Moore, including his experiences and those of others in Shockley Semiconductor, Fairchild Semiconductor, Intel, as well as contexts beyond the semiconductor industry.

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Andrew S. Grove

(Date)  5/1/07

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ANDREW S. GROVE

1936
Born in Budapest, Hungary on 2 September

Education

1960
B.S., chemical engineering, City College of New York
1963
Ph.D., chemical engineering, University of California, Berkeley

Professional Experience

Fairchild Semiconductor, Palo Alto, California
1963-1966
Technical Staff, Semiconductor Research Laboratory
1966-1967
Section Head of Surface and Device Physics, Semiconductor Research Lab
1967-1968
Assistant Director, Research Laboratory

Intel Corporation, Santa Clara, California
1968-1975
Vice President and Director of Operations
1974-present
Director
1975-1989
Executive Vice President
1976-1987
Chief Operating Officer
1979-1987
President
1987-1998
Chief Executive Officer
1997-present
Chairman of the Board

University of California, Berkeley, California
1966-1972
Lecturer, Department of Electrical Engineering and Computer Science

Stanford University, Stanford, California
1991-present
Lecturer, Stanford Graduate School of Business

Honors

1960
Best Student Paper Award, American Institute of Chemical Engineers
1966
Achievement Award, Institute of Electrical and Electronics Engineers
1974
J. J. Ebers Award, Institute of Electrical and Electronics Engineers
1975
Certificate of Merit, Franklin Institute
1979
Elected member, National Academy of Engineering
<table>
<thead>
<tr>
<th>Year</th>
<th>Award Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1980</td>
<td>Townsend Harris Medal, City College of New York</td>
</tr>
<tr>
<td>1984</td>
<td>Hall of Fame Award, Information Industries Association</td>
</tr>
<tr>
<td>1984</td>
<td>Council of 100 Members, Arizona State University</td>
</tr>
<tr>
<td>1985</td>
<td>Honorary Doctor of Science Degree, City College of New York</td>
</tr>
<tr>
<td>1987</td>
<td>Ernst Weber Engineering Leadership Recognition Award, Institute of Electrical and Electronics Engineers</td>
</tr>
<tr>
<td>1989</td>
<td>Honorary Doctor of Engineering Degree, Worcester Polytechnic Institute</td>
</tr>
<tr>
<td>1990</td>
<td>George Washington Award, American-Hungarian Foundation</td>
</tr>
<tr>
<td>1991</td>
<td>Leadership in Technology Management Award, Portland International Center for Management of Engineering and Technology</td>
</tr>
<tr>
<td>1993</td>
<td>Citizen of the Year Award, World Forum of Silicon Valley</td>
</tr>
<tr>
<td>1993</td>
<td>Executive of the Year Award, University of Arizona</td>
</tr>
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<td>1993</td>
<td>Medal of Achievement Award, American Engineering Association</td>
</tr>
<tr>
<td>1995</td>
<td>Technology Award, Heinz Foundation</td>
</tr>
<tr>
<td>1995</td>
<td>John von Neumann Medal, American Hungarian Association</td>
</tr>
<tr>
<td>1995</td>
<td>Steinman Medal, City College of New York</td>
</tr>
<tr>
<td>1996</td>
<td>Statesman of the Year Award, Harvard Business School</td>
</tr>
<tr>
<td>1996</td>
<td>International Achievement Award, World Trade Club</td>
</tr>
<tr>
<td>1997</td>
<td>Computer Entrepreneur Award, Institute of Electrical and Electronics Engineers</td>
</tr>
<tr>
<td>1997</td>
<td>Technology Leader of the Year Award, <em>Industry Week</em></td>
</tr>
<tr>
<td>1997</td>
<td>Man of the Year, <em>Time Magazine</em></td>
</tr>
<tr>
<td>1998</td>
<td>Distinguished Executive of the Year, Academy of Management</td>
</tr>
<tr>
<td>2000</td>
<td>Honorary Doctor of Laws Degree, Harvard University</td>
</tr>
<tr>
<td>2000</td>
<td>Medal of Honor, Institute of Electrical and Electronics Engineers</td>
</tr>
<tr>
<td>2001</td>
<td>Lifetime Achievement Award, Strategic Management Society</td>
</tr>
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ABSTRACT

Andrew S. Grove begins the first interview session with a description of his undergraduate life at the City College of New York, where exposure to influential professors shaped his professional outlook and personal demeanor. Grove studied fluid dynamics with Andreas Acrivos at the University of California, Berkeley, publishing four papers from a doctoral thesis. Grove also studied solid state physics and became employed by Fairchild Semiconductor. Grove cites Gordon E. Moore as a decisive factor in accepting the position. Grove had a close relationship to Moore at both Fairchild and Intel Corporation. In the second interview, Grove discusses the design of Fairchild Semiconductor offices and its effect on the accessibility of higher management, as well as the work ethic of the employees. Grove was attracted to an offer from National Semiconductor but remained with Fairchild Semiconductor after being promoted by Robert N. Noyce. The combination of personalities of Fairchild Semiconductor executives contributed to its success, a pattern which emerged in Intel Corporation as well after its founding by Grove, Gordon Moore, and Robert Noyce. Grove concludes his interview with a reflection on the contributions of Moore, Noyce, and himself to the semiconductor industry.

INTERVIEWERS

Arnold Thackray is President of the Chemical Heritage Foundation. He majored in the physical sciences before turning to the history of science, receiving a Ph.D. from Cambridge University in 1966. He has held appointments at Oxford, Cambridge, Harvard, the Institute for Advanced Study, the Center for Advanced Study in the Behavioral Sciences, and the Hebrew University of Jerusalem. In 1983 he received the Dexter Award from the American Chemical Society for outstanding contributions to the history of chemistry. He served on the faculty of the University of Pennsylvania for more than a quarter of a century. There, he was the founding chairman of the Department of History and Sociology of Science, where he is the Joseph Priestley Professor Emeritus.

David C. Brock is a senior research fellow with the Center for Contemporary History and Policy of the Chemical Heritage Foundation. As an historian of science and technology, he specializes in oral history, the history of instrumentation, and the history of semiconductor science, technology, and industry. Brock has studied the philosophy, sociology, and history of science at Brown University, the University of Edinburgh, and Princeton University (respectively and chronologically). His most recent publication is Understanding Moore’s Law: Four Decades of Innovation (Philadelphia: Chemical Heritage Press), 2006, which he edited and to which he contributed.
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