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RICHARD S. STEIN

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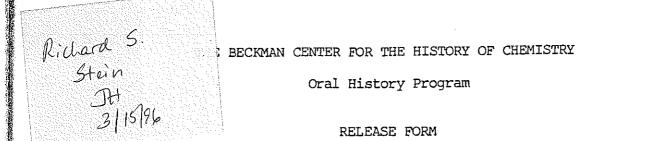
James J. Bohning

at

The University of Massachusetts

on

17 June 1987



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# RICHARD S. STEIN

1925 Born in New York, New York on 21 August

## Education

1945	B.S., chemistry (magna cum laude), Polytechnic
	Institute of Brooklyn
1948	M.A., physical chemistry, Princeton University
1949	Ph.D., physical chemistry, Princeton University

# Professional Experience

- 1948-1949 National Research Council Fellow, Cambridge University
- 1949-1950 Research Associate, Princeton University
- University of Massachusetts, Amherst
- 1950-1957 Assistant Professor of Chemistry
- 1957-1959 Associate Professor of Chemistry
- 1959-1961 Professor of Chemistry
- 1961-1980 Commonwealth Professor
- 1980- Charles A Goessmann Professor
- 1961- Founder and Director, Polymer Research Institute

# Honors

- 1968 Fulbright Visiting Professor, Kyoto University
- 1969 International Award, Society of Plastics Engineers
- 1970 Honor Scroll Award, New England Chapter, American Institute of Chemists
- 1972 Applied Polymer Chemistry Award, American Chemical Society
- 1972 Bingham Medal, Society of Rheology
- 1976 Polymer Physics Award, American Physical Society
- 1978 Chancellor's Medal, University of Massachusetts
- 1983 Polymer Chemistry Award, American Chemical Society
- 1985 Whitby Lecturer, University of Akron
- 1988 Polymer Science Society of Japan Award

## ABSTRACT

Richard Stein starts this interview by reflecting on the New York City schools which provided a real stimulus, especially in mathematics and science, to him and his contemporaries. At. Brooklyn technical High School he took a more vocational set of courses, thinking that the family resources would not cover college study. In the event, however, Stein was able to go to Brooklyn Polytechnic Institute and, under the wartime circumstances, was able to graduate within three years, including a productive senior project on light scattering with Paul Doty. Stein then accepted a Textile Foundation fellowship at Princeton In the three years of his Ph.D. program he worked University. under a succession of three advisors; Henry Eyring, Robert Rundle and Arthur Tobolsky. During this section of the interview Stein describes the organization of graduate study in chemistry at Princeton and recollects Eyring, Taylor, Rundle and Tobolsky. А NRC fellowship took Richard Stein from Princeton to Cambridge to work on infrared dichroism under Gordon Sutherland and he recalls the austerities of life in postwar England and the primitive facilities in the Cambridge physical chemistry laboratories. Soon after his return to this country Stein was appointed to an assistant professorship in the chemistry department of the University of Massachusetts at Amherst. Stein describes his heavy teaching load, how he started his research program and the growth of polymer interests at UMass. The latter led to the inauguration of the Polymer Research Institute at UMass and Stein reflects on the academic interactions between chemistry and polymer science. The interview concludes with recollections of the visit of a chemistry delegation to China and also with his views on research funding.

## INTERVIEWER

James J. Bohning holds the B.S., M.S., and Ph.D. degrees in chemistry, and has been a member of the chemistry faculty at Wilkes College since 1959. He was chair of the Chemistry Department for sixteen years, and was appointed chair of the Department of Earth and Environmental Sciences in 1988. He has been associated with the development and management of the oral history program at the Beckman Center since 1985, and was elected Chair of the Division of the History of Chemistry of the American Chemical Society for 1987.

## TABLE OF CONTENTS

1 Childhood and Schooldays Growing up in Far Rockaway. Interest in science developed at elementary school and at Brooklyn Technical High School. Effect of the Depression on family finances. Technical content of high school courses. School radio station; standard of chemistry laboratory classes.

- 8 Brooklyn Polytechnic Institute Wartime study and association with military projects. Faculty and courses. Senior thesis with Paul Doty. Influence of Herman Mark.
- 14 Graduate Study at Princeton Eyring and textile fellowship. Colleagues and faculty; Rundle and crystallography; Tobolsky. Textile Research Institute and the Princeton Plastics laboratory. Relations between polymer science and chemistry departments in the university setting.
- 25 Fellowship at Cambridge Gordon Sutherland and infrared dichroism. Privations of postwar England. Contemporaries at Cambridge, laboratory facilities.
- 29 University of Massachusetts

Appointment at UMass and development of new chemistry teaching courses. Initial research efforts; light scattering from polymer films. Funding. Industrial consulting. Setting up of the Polymer Research Institute and its growth. Polymer birefringence. Depolarization of scattered light from vapors. Computation at UMass. Visit to China as part of scientific delegation. Massachusetts initiative for Centers of Excellence; new building for the Polymer Research Institute.

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INDEX

#### Α

Absolute reaction rate theory, 15, 16 Alexander, 29, 33 Alfrey, 9, 16, 17 Amherst, Massachusetts 31, 34 Amherst College, 18 Amylose, 36 Andrews, 26, 27 Army Specialized Training Program [ASTP], 9

# в

Baker, William O. 17 Balloons, inflation of, 37, 52 Bell Laboratories, 18, 22, 39 Berry, Guy C., 50 Bhagavantam, S., 42, 52 Birefringence, polymer, 27, 41, 42 Blumberg, Baruch, 1 Boston, Massachusetts, 34 Boyer, Raymond f. 17, 52 Bragg, W. L. 28 Breslow, Roland, 45 British Secret Service, 36 Brooklyn, New York, 5, 9, 13 Brooklyn Polytechnic Institute, 4, 7-11, 14, 17, 23, 30 Brooklyn Polytechnic, 8 Brooklyn Technical High School, 1, 4, 6, 10 Bush, Vannevar, 33

# С

Caldwell, Benjamin, 11 Cambridge, England, 17, 25, 26, 29, 36 Cambridge, University of, 25, 26, 28, 29, 36 Cannon, George W., 32 Carothers, Wallace H. 39 Cavendish laboratory (Cambridge University), 28 Cellulose acetate, 12 Charlton, Arthur, 1, 2 Charmin, --, 6 Chen, James C., 25 China, visit of scientific delegation, 44, 45 Clarke, William, 31 Columbia University, 11, 14 Computing Center (UMass), 43 Conte, Silvio, 49 Continental Can Company, Inc., 17 Cooper, Stuart L., 22 Cornell University, 14, 20

## D

Dainton, Frederick S., 29

Daniels, Farrington, 12, 52
Debye, Peter, 11, 12, 20
Degradation, PVC, 8
Depolarization, of scattered light, 42, 52
the Depression, 4
Deuterated polyethylene, 36
dichroism, infrared25
Dillon, John M., 21
Dirac, Paul A. M., 28
Doty, Paul M., 11, 12, 13, 14, 21, 52
E. I. du Pont de Nemours & Company, Inc., 2, 39
Duffey, Joseph D., 48
Dukakis, Governor Michael, 47, 48
Dushman, Saul, 6
D'Hont, Maurice, 29

# Е

Eichinger, Bruce, 51 Einstein, Albert, 12, 20 Electro-optical properties, 38 Erman, Burak, 50 Eyring, Henry, 14-16, 19, 23, 52

#### F

```
fadeometer, 8
Far Rockaway, New York, 1, 3, 14
Family,
    father (Isidor Stein), 1, 4, 30
    mother (Florence Lewengood), 1, 25, 30
    sister, 4
Fessenden, Richard W., 29
Feynman, Richard P., 1
Flory, Emily, 11, 39, 42, 44, 48-51
fluctuation theory, 12
Fowler, Ralph H., 15, 52
Frick laboratory (Princeton University), 15
```

#### G

gel permeation chromatography [GPC], 46 General Electric Company, 6, 39, 47 Gibbs, Julian, 18 Gibbs, J. Willard, 15 Goessmann, Charles, 40 Gold, from seawater, 3 Goodman, Lionel, 3 Grün, F., 27 Gucker, Frank T., 42 Guggenheim, Edward A., 15, 52

#### н

Halsey, George, 15, 17, 19, 52 Hashimoto, Takeji, 44, 49 Hoffman, John D., 18, 22 Hokkaido University, 31 Horio, Masao, 43 Hoyle, Fred, 28 Hsu, Shaw Ling, 9, 17

# I

Infrared spectroscopy, 25, 28

# J

Jones, Allistar Vallance, 29

# ĸ

```
Karasz, Frank, 17, 24, 48
Kawai, Hiromichi, 43
Kendrew, Carolyn, 36
Keyworth, George, 48
Kirk, Raymond E., 11
Kobayashi, Hisashi, 22, 41
Koberstein, Jeffrey T., 22, 41
Krimm, Samuel, 8, 17, 52
Kuhn, Werner, 26, 27, 41
Kyoto University, 44
```

## L

LaMer, Victor K., 11 Langmuir, Irving, 39 Laser, 42 Leadermann, Herbert, 43, 44 Lederle, John, 24 Lee, Yuan T., 45 Lennard-Jones, John E., 28 Lenz, Robert W., 24 Light scattering, 11, 32, 34, 35, 36, 42, 46, 52 Lindsey, Ernest, 23

# М

MacKnight, William J., 22, 24, 25 R. H. Macy & Company, Inc., 8 Mahoney, Richard, 37 Mandelkern, Leo, 50 Mark, James E., 50, 51 Mark, Herman F., 13, 14, 23, 24, 39, 41, 52 Marston, George A., 34 Massachusetts, University of, [UMass], 3, 13, 23, 24, 29-31, 33-38, 50 Mather, Jean Paul, 34, 35 Matsuoka, Shiro, 22 Maxwell, Bryce, 22 Mayer, Joseph E. 11 McGrath, James E., 41 Mechanical properties of textile fibers, 15 Mechanical relaxation, 43 Mesrobian, Robert B., 17 Mississippi, University of, 35 MMI [Midland Molecular Institute], 22 Moelwyn-Hughes, E. A., 28 Molecular weights, polymer, 11 Monsanto Chemical Company, 36, 38 Moore, Edward, 43 Mount Holyoke College, 30

# N

National Bureau of Standards [NBS], 18, 43

National Physical Laboratory (UK), 28 National Research Council fellowship, 25, 30 National Research Council of Canada, 29 Naval Research Lab, 30

# 0

Office of Naval Research, 33 Onogi, Shigeharu, 44 Oppenheimer, J. Robert, 20 Overberger, Charles G., 23

## Ρ

```
Perutz, Max, 28
Charles Pfizer & Company, 5, 8
Plastics Laboratory (Princeton University), 21, 22
Polarizability, bond 41, 42, 52
Polyethylene, 21
Polyisobutylene, 42
Polymer Center of Excellence, 47
Polymer Research Institute (Brooklyn Polytechnic Institute), 14
Polymer Research Institute (UMass), 23-25, 39, 40, 46
polymer science and engineering program, 40
Polyvinyl alcohol, 43
Polyvinylchloride [PVC], 8
Pork barrel funding, 48, 49
Porter, Roger, 24, 25
Princeton University, 14, 15, 17, 18, 20, 22, 23, 25, 26, 29, 36, 41,
 42, 43
```

# Q

Qian, Renyan, 46 Quin, Louis D., 40

## R

Radio station (Brooklyn Polytechnic Institute), 6 Rahm, Louis F., 22 Raman, Chandrasekhara V., 42 Rebenfeld, Ludwig, 22 Research Corporation, 32 Rideal, Eric K., 28 Ritchie, Walter, 29, 30, 36 Roberts, John E., 32 Rowell, Robert L., 42, 43 Rubber elasticity, 37 Rubber Reserve, 11 Rundle, Robert E., 16, 20, 36, 52 Russell, Bertrand, 28

# S

```
Sakurada, Ichiro, 43
Salzman, George, 3
Science club, 2, 3
Seaborg, Glenn, 44-46
Seminars, Saturday (Brooklyn Polytechnic Institute) 11
Sheppard, Norman 29
Showalter, William R., 22
Siggia, Sidney, 11
Smith College, 30
```

Smith, Gilbert B. L., 11 Smith, Harold J., 32 Smyth, Charles P., 22 Spectrophotometer, Beckman DU, 32 Starch chemistry, 20 Starch-iodine complex, 20, 36 Stockmayer, Walter H., 13 Sutherland, Gordon H. B., 17, 25, 27, 29, 36

# т

```
Taylor, Hugh S., 18, 25
Textile Fellowship, 33
Textile Foundation, 14
Textile Research Institute, 14, 15, 20, 21
Tobolsky, Arthur V., 13, 14, 17, 19, 20, 21, 22, 23, 25, 26, 27, 29,
33, 43, 52
```

# U

UMass, see Massachusetts, University of

#### v

Van Meter, Ralph, 31 Virgina Polytechnic Institute [VPI], 22 Von Neuman, John, 42

#### W

Wallis, Evertett, 15 Ward, Roland, 9, 10 Wigner, Eugene P., 20 Wilkes, Garth, 22, 41 Wirth, Joseph G., 47 World Fair (New York, 1939), 2, 10

# Х

Xerox Corporation, 38 X-ray diffraction, 20, 28

# Y

Yoon, Do Yeung, 50

## $\mathbf{Z}$

Zimm, Bruno H., 11, 12, 13, 14, 21, 34, 52