10-1022

THE PRESIDENT'S COMMITTEE
ON SCIENTISTS AND ENGINEERS
WASHINGTON 25, D. C.

OFFICE OF THE CHAIRMAN

February 7, 1958

The Honorable Allen W. Dulles
Director
Central Intelligence Agency
2340 E Street, N. W.,
Washington 25, D. C.

Dear Mr. Dulles:

We were delighted that you were able to attend and address the Conference at Yale on America's Human Resources. Your address was a distinct contribution and was very favorably received.

May I express my personal as well as my official thanks.

I believe you will be interested in seeing the attached printed program and the list of participants.

Sincerely,

Howard L. Bevis
Chairman

enclosure

ALLEN W. DULLES

Sponsored by the
PRESIDENT'S COMMITTEE ON SCIENTISTS AND ENGINEERS

[redacted]BERTON FOUNDATION

Luncheon

THE NEW HAVEN LAWN CLUB

February 3, 1958
12:30 P.M.

Host: DIVERSEY ENGINEERING COMPANY

Luncheon

THE NEW HAVEN LAWN CLUB

February 4, 1958
12:30 P.M.

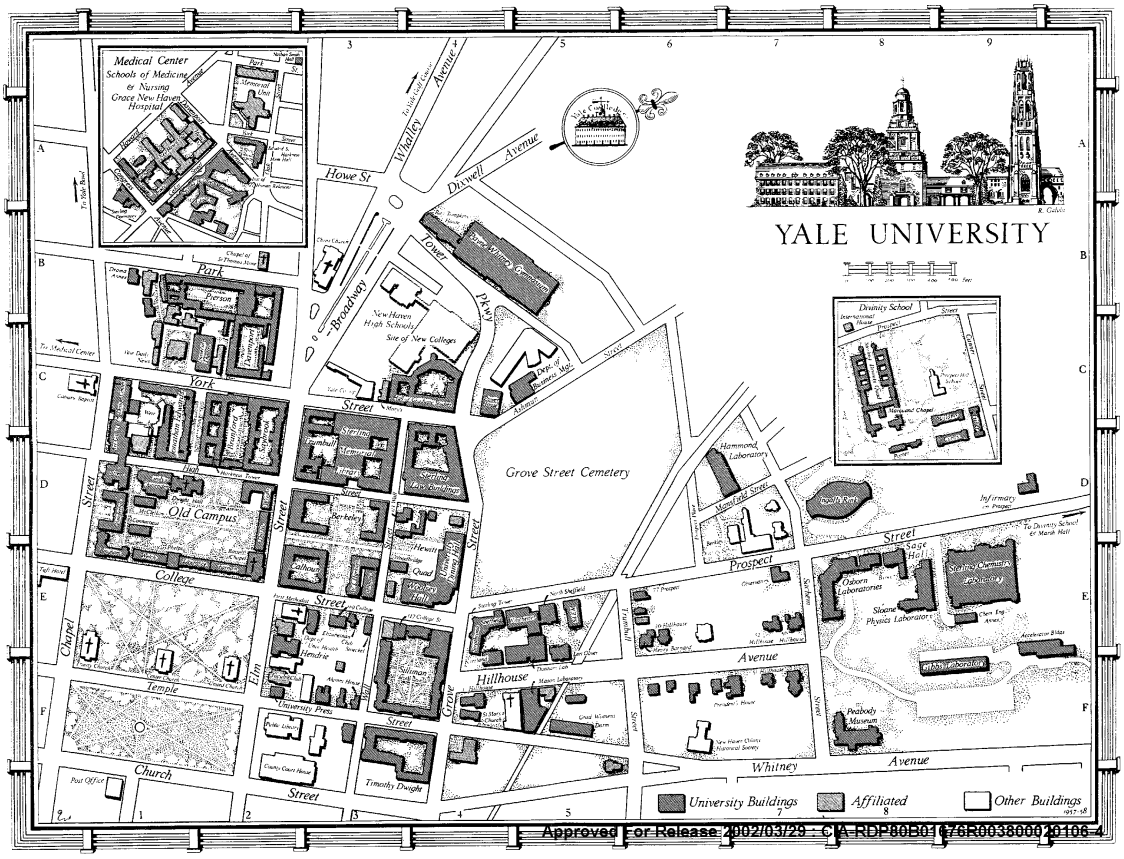
Host: SCHENLABS PHARMACEUTICALS
DIVISION OF
SCHENLEY INDUSTRIES, INC.

Reception

THE PRESIDENT'S ROOM, WOOLSEY HALL
YALE UNIVERSITY

February 3, 1958
6:15 P.M.

Host: MERCK AND COMPANY, INC.



YALE UNIVERSITY

Buildings	Location
Accelerator Buildings	F–9
Alumni Fund	F–4
Alumni House	F–3
Anatomy Laboratory Annex	B–2
Art Gallery and Design Center	C–1
Battell Chapel	E–2
Berkeley College	D–3
Berzelius	F–5
Beta Theta Pi	C–1
Bingham Hall	E–1
Bingham Oceanographic Laboratory	F–7
Book and Snake	D–4
Bowers Hall	E–8
Brady Memorial Laboratory	A–1
Branford College	D–2
Business Management, Dept. of	C–4
Calhoun College	E–3
Center for Alcohol Studies	E–7
Chemical Engineering Annex	E–9
Chi Phi	F–5
Chi Psi	B–1
College Street, 119	E–3
College Street, 137	E–3
Connecticut Hall	D–1
Corby Court	F–3
Cowles Foundation	E–6
Davenport College	C–2
Delta Kappa Epsilon	C–2
Department of University Health	E–3
Divinity School	C–8
Drama School Annex	B–1
Dunham Lab. of Electrical Engineering	E–5
Durfee Hall	D–2
Dwight Hall	D–1
Dwight Memorial Chapel	D–1
Elihu Club	E–2
Elizabethan Club	E–3
Faculty Club	F–2
Farnam Hall	E–2
Farnam Memorial Building	A–1
Fence Club	C–2
J. Willard Gibbs Research Laboratories	F–9
Graduate Women's Dormitory	F–5
Hall of Graduate Studies	C–4
Hammond Metallurgical Laboratory	D–7
Edward S. Harkness Memorial Hall	A–2
W. L. Harkness Hall	E–3
Harkness Tower	D–2
Hendrie Hall	E–2
Henry Barnard Hall	E–6
Hope Clinic Building	B–1
Infirmary	D–9
Ingalls Rink	D–7
Institute of Far Eastern Languages	B–1
Institute of Human Relations	A–2
International House	C–8
Jonathan Edwards College	C–1
Kirtland Hall	F–4
Lauder Hall	A–1
Lawrance Hall	E–2
Leet Oliver Memorial Hall	F–5
Lindsly-Chittenden Hall	D–1
McClellan Hall	D–1
Marquand Chapel	C–8
Mason Mechanical Engineering Lab.	F–5
Medical Center	A–2
North Sheffield Hall	E–5
Observatory	E–7
Osborn Memorial Laboratories	E–8
Payne Whitney Gymnasium	B–4
Peabody Museum	F–8
Phelps Hall	E–1
Phi Gamma Delta	B–1
Pierson College	B–2
Power House	C–4
President's House	F–7
Prospect Street, 77	E–6
Prospect Street, 135	E–7
Ray Tompkins House	B–4
Sage Hall	E–8
Saint Anthony Hall	E–3
Saint Elmo	F–4
Saybrook College	D–2
Scroll and Key	E–3
Sheffield-Sterling-Strathcona	E–4
Sheffield Lab. of Eng. Mechanics	E–5
Silliman College	F–4
Skull and Bones	D–1
Sloane Physics Laboratory	F–8
Sprague Memorial Hall	F–3
Sterling Chemistry Laboratory	F–9
Sterling Divinity Quadrangle	C–8
Sterling Dormitory	A–1
Sterling Hall of Medicine	A–2
Sterling Law Buildings	D–4
Sterling Memorial Library	D–3
Sterling Power House	B–2
Stoeckel Hall	E–3
Street Hall	D–1
Timothy Dwight College	F–3
Trumbull College	D–3
University Dining Hall	E–4
University Press	F–2
University Theatre	C–2
Vanderbilt Hall	D–1
Wall Street, 117	D–3
Wall Street, 123	D–3
Weir Hall	C–1
Welch Hall	E–1
Winchester Hall	E–5
Wolf's Head Society	C–1
Woodbridge Hall	E–3
Woolsey Hall	E–4
Wright Hall	D–2
Yale Daily News	C–1
Zeta Psi	B–1

SECOND-DAY ROUND-TABLES (10:00 A. M. February 4)

7. "Conserving Our Rarest Resource--
Creative Talent"
Chairman: Dr. Eric A. Walker, Pres.
Pennsylvania State Univ.

8. "Forty Million Growing Minds--
The Quality of Elementary and
Secondary Education"
Chairman: Dr. Clarence H. Faust
Vice President
The Ford Foundation

9. "The Coming Crisis on the Campus--
Maintaining Standards with
Increased Enrollments"
Chairman: Dr. Katharine McBride,
Pres. Bryn Mawr College

10. "Advanced Training for Superior
Talent--Graduate Education and
Research"
Chairman: Dr. Paul Gross, Vice Pres.
Duke University

* * * * * * * * * *

I should like to participate in: Round-Table No. _____ (1st choice)

or Round-Table No. _____ (2nd choice)

Name: _____

"AMERICA'S HUMAN RESOURCES TO MEET THE SCIENTIFIC CHALLENGE"

LIST OF PARTICIPANTS

YALE UNIVERSITY, FEBRUARY 3-4, 1958

Sponsored by the
PRESIDENT'S COMMITTEE ON SCIENTISTS AND ENGINEERS
and the WILLIAM BENTON FOUNDATION

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Dr. Arthur S. Adams
President, American Council on Education

Dr. James E. Allen, Jr.
Commissioner of Education, New York State Department of Education

Mr. Max Ascoli
Editor and Publisher, The Reporter

Mr. James B. Austin
Vice President for Research and Technology, U. S. Steel Corp.

Dr. Joseph W. Barker
President, Research Corporation of America, New York

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President, United Press Associations, New York

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Vice President, University of Chicago

Mr. Eugene N. Beesley
President, Eli Lilly and Company, Indianapolis

Mr. Francis Bello
Science Editor, Fortune

Mr. William Benton
President, The William Benton Foundation, New York

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President, Associated Universities, Inc., New York

Dr. Howard L. Bevis
Chairman, President's Committee on Scientists and Engineers

Dr. Robert T. Beyer
Associate Professor of Physics, Brown University

Mr. Barry Bingham
Publisher, Louisville Courier-Journal

Mr. Alton Blakeslee
Science Writer, Associated Press, New York

Mr. Frederick G. Blumenthal
Washington Editor, Parade Magazine

Hon. Richard Bolling
Representative from Missouri, Washington, D. C.

Mr. Edward Booher
Vice President, McGraw-Hill Book Company, New York

Dr. Carl W. Borgmann
President, University of Vermont

Dr. Maynard M. Boring
Consultant, Engineering Manpower, General Electric Company

Dr. Wallace R. Brode
President, American Association for the Advancement of Science

Dr. Harrison Brown
Professor of Geochemistry, California Institute of Technology

Dr. J. Douglas Brown
Dean of the Faculty, Princeton University

Dr. Samuel Brownell
Superintendent, Detroit Public Schools

Dr. Jerome S. Bruner
Professor of Social Relations, Harvard University

Dr. Victor L. Butterfield
President, Wesleyan University

Mr. Robert Cairns
Assistant Director of Research, Hercules Powder Company

Mr. Milton Caniff
Cartoonist, New City, N. Y.

Dr. William Capron
Visiting Assistant Professor, Economics, Stanford University

Mr. Thomas H. Carroll
Vice President for Economics and Business Administration, Ford Foundation

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Associate Director, Twentieth Century Fund

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Associate Editor, The Washington Star

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Mr. Robert C. Cowen
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Mr. Watson Davis
Director, Science Service, Washington, D. C.

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President, Rochester University

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Professor of Social Science, University of Chicago

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Editor, The Hartford Times, Hartford, Conn.

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Dr. Max Femmer
International Business Machines Research Center

Miss Mildred S. Fenner
Editor, National Education Association Journal

Mr. J. Robert Ferguson, Jr.
Ass't. Vice President for Engineering,
U. S. Steel Corp., Pittsburgh

Mr. Thomas K. Finletter
Partner, Coudert Brothers, New York

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University of Chicago

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Executive Secretary, Council of Chief State School Officers

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President, Case Institute of Technology

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Science Writer, Newsweek

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Professor, International Economic Relations,
Harvard Business School

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Edtior, Parade Magazine

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Vice President, Duke University

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Public Information Officer, National Science Foundation

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Center for International Studies, M.I.T.

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Coordinator of Research Services, New York University

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Institute for Communications Research,
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Dr. Jerrold Zacharias
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THE PRESIDENT'S COMMITTEE ON SCIENTISTS AND ENGINEERS

On April 3, 1956 President Eisenhower established the National Committee for the Development of Scientists and Engineers to unify and stimulate the nation's efforts to meet growing needs for scientific manpower.

The President recognized that "although the government has a responsibility . . . . the basic responsibility for solution of the problem lies in the concerted action of citizens and citizens' groups . . . ." He charged the Committee to enlist the cooperation of all interested individuals and groups in dealing with the problem.

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DR. E. D. VINOGRADOFF
Staff Director

ROUND TABLE NO. 1

"Understanding the Nature of the Soviet Threat"

Chairman: Thomas K. Finletter
Partner, Coudert Bros., New York

Mr. James B. Austin	Vice President for Research and Technology, U.S. Steel Corporation
Mr. Frank H . Bartholomew	President, United Press Associations
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Dr. Victor Butterfield	President, Wesleyan University
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Mr. Nicholas DeWitt	Russian Research Center, Harvard University
Mr. Douglas Ewing	Vice President, Research and Engineering, N.B.C.
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Dr. T. Keith Glennan	President, Case Institute of Technology
Mr. Jess Gorkin	Editor, Parade Magazine
Dr. Alex Inkeles	Russian Research Center, Harvard University
Dr. Alex Korol	Center for International Studies, M.I.T.
Mr. Clarence H. Linder	Vice President, Engineering Services, General Electric Co.
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Dr. Walt Whitman Rostow	Center for International Studies, M.I.T.
Dr. Wilbur L. Schramm	Institute for Communications Research, Stanford University
Dr. Herbert Scoville, Jr.	Assistant Director, Central Intelligence Agency
Mr. Thomas Slick	President, Slick Airways, Inc.
Mr. R. C. Tucker	Rand Corporation, Washington, D.C.
Dr. John Turkevich	Professor of Chemistry, Princeton University
Dr. Eric A. Walker	President, Pennsylvania State University

ROUND TABLE NO. 2

"The Scientific Revolution: Challenge and Promise"

Chairman: Dr. Harrison Brown
Professor of Geochemistry
California Institute of Technology

Dr. Joseph W. Barker	President, Research Corporation of America, N.Y.
Mr. Robert Cairns	Assistant Director of Research, Hercules Powder Company, Wilmington
Mr. Thomas H. Chilton	Technical Director, Engineering Department, E. I. DuPont de Nemours and Company
Mr. Clark A. Dunn	President Elect, National Society of Professional Engineers
Mr. Richard Eells	Consultant, Public Policy Research, General Electric Company
Dr. James Franck	Professor Emeritus of Chemistry, University of Chicago
Mr. R. Buckminster Fuller	President, Geodesics, Inc., Detroit
Dr. Lincoln Gordon	Professor, International Economic Relations, Harvard Business School
Honorable Edith Green	Representative from Oregon, Washington, D.C.
Dr. Reuben Gustavson	President, Resources for the Future, Washington, D.C.
Rev. Theodore M. Hesburgh	President, University of Notre Dame
Dr. William Houston	President, Rice Institute
Dr. Katharine McBride	President, Bryn Mawr College
Rev. Laurence J. McGinley	President, Fordham University
Dr. Eugene Rabinowitch	Editor, Bulletin of the Atomic Scientists, University of Illinois
Dr. Hartley Simpson	Dean, Yale Graduate School
Dr. Morris I. Stein	Associate Professor, Department of Psychology, University of Chicago
Dr. Fred L. Whipple	Director, Astrophysical Observatory Smithsonian Institution, Cambridge, Mass.
Dr. Dael Wolfle	Executive Officer, American Association for the Advancement of Science, Washington, D. C.

ROUND TABLE NO. 3

"Educating Future Scientists in a Rounded Educational System"

Chairman: Hon. Lister Hill
U. S. Senator from Alabama

Dr. Arthur S. Adams	President, American Council on Education
Dr. James E. Allen, Jr.	Commissioner of Education, New York State
Mr. Max Ascoli	Editor and Publisher, The Reporter
Mr. Eugene N. Beesley	President, Eli Lilly and Company, Indianapolis
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Mr. Charles H. Chatfield	Secretary, United Aircraft Corp.
Mr. Clarence H. Faust	Vice President, Ford Foundation
Mr. D. J. Forrestal	Director of Public Relations, Monsanto Chemical Company, St. Louis, Mo.
Dr. Edgar Fuller	Executive Secretary, Council of Chief State School Officers, Washington, D. C.
Mr. Robert Hoopes	Vice President, American Council of Learned Societies
Mr. Albert C. Jacobs	President, Trinity College, Hartford, Conn.
Mr. Louis Johnson	Partner, Steptoe and Johnson, Washington, D. C.
Mr. A. N. Jorgensen	President, University of Connecticut
Dr. Harry C. Kelly	Ass't. Dir. for Scientific Personnel and Education, National Science Foundation
Dr. Francis Keppel	Dean, Faculty of Education, Harvard University
Dr. F. C. Lindvall	President, American Society for Engineering Education; Chairman, Engineering and Aeronautics Divisions, California Institute of Technology
Dr. Richard Meier	University of Michigan
Mrs. Agnes E. Meyer	Author, Washington, D. C.
Dr. R. B. Norman	President, National Association of Secondary-School Principals; Principal, Amarillo Senior High School
Dr. John S. Richardson	Past President, National Science Teachers Association; Professor of Education, Ohio State University
Rear Admiral H. G. Rickover	Assistant Chief, Bureau for Nuclear Propulsion, Bureau of Ships, Washington, D. C.
Dr. Anne Roe	Adjunct Professor, New York University
Dr. William Sanders	Commissioner of Education, State Department of Education, Hartford, Conn.
Mr. Earl P. Stevenson	Chairman of the Board, Arthur D. Little, Inc.
Dr. Ruth Stout	Vice President, National Education Association
Mr. Charles A. Thomas	President, Monsanto Chemicals, St. Louis
Dr. Oswald Tippo	Chairman, Department of Botany, Yale University

ROUND TABLE NO. 4

"The Economic Implications of an Adequate Science Program"

Chairman: Mr. Alfred C. Neal
President
The Committee for Economic Development

Hon. Richard Bolling	Representative from Missouri, Washington, D.C.
Dr. William Capron	Visiting Assistant Professor of Economics, Stanford University
Mr. Thomas H. Carroll	Vice-President for Economics and Business Administration, Ford Foundation
Mr. William Chartener	McGraw-Hill Publishing Company, Inc.
Mr. John C. Davis	Consultant, International Cooperation Administration
Dr. William C. DeVane	Dean of Yale College
Mr. J. Robert Ferguson, Jr.	Ass't. Vice-President for Engineering, U. S. Steel Corp.
Dr. Eli Ginzberg	Director of Staff Studies, National Manpower Council, Columbia University
Mr. William E. Gordon	Arthur D. Little, Inc., Cambridge, Mass.
Dr. Paul Gross	Vice-President, Duke University
Dr. James H. Halsey	President, University of Bridgeport
Mr. Peter Henle	Assistant Director of Research, AFL-CIO
Mr. John H. Kauffman	President, Diversey Engineering Co.
Mr. George G. Kirstein	Publisher, The Nation
Mr. Porter McKeever	Information Director, Committee on Economic Development
Dr. R. W. McNamee	Manager, Research Administration, Union Carbide Corporation, New York
Dr. Sidney Roth	Coordinator of Research Services, New York University
Dr. S. F. Singer	Department of Physics, University of Maryland
Dr. Arthur Smithies	Professor of Economics, Harvard University
Dr. J. C. Warner	President, Carnegie Institute of Technology
Dr. William Whitehouse	President, Albion College
Mr. Carroll Wilson	President, Metals and Controls Company, Attleboro, Massachusetts
Dr. Irving Wolff	Vice President, Research, R. C. A.

ROUND TABLE NO. 5

"Technological Requirements of the Free World and the Uncommitted Countries"

Chairman: Eric Johnston, President
Motion Picture Association of America

Dr. Walter Bartky	Vice-President, University of Chicago
Mr. Edward Booher	Vice-President, McGraw-Hill Book Company, New York
Dr. Wallace R. Brode	President, American Association for the Advancement of Science; The Science Advisor, Department of State
Dr. J. Douglas Brown	Dean of the Faculty, Princeton University
General Hugh J. Casey	Secretary, Schenley Industries, Inc.
Mr. C. A. Chayne	Vice-President, Engineering Staff, General Motors Technical Center, Detroit
Mr. Walker Cisler	President, The Detroit Edison Company
Dr. Cornelius de Kiewiet	President, Rochester University
Dr. Reuel N. Denney	Professor of Social Science, University of Chicago
Dr. Leon Dostert	Director, Institute of Languages and Linguistics, Georgetown University
Mrs. Morris D. Friedman	Lexington, Mass.
Mr. John F. Hilliard	Deputy Director for Manpower, Office of Defense Mobilization
Dr. Klaus Knorr	Professor of Public and International Affairs, Princeton University
Mr. Robert S. Morison	Director for Biological and Medical Research, Rockefeller Foundation
Dr. Ithiel Pool	Center for Advanced Study in the Behavioral Sciences, Stanford University
Dr. Philip Powers	President, Internuclear Company, Clayton, Mo.
Mr. H. Christian Sonne	President, South Ridge Corporation
Dr. Hans Speier	Rand Corporation, Washington, D. C.
Dr. Harold Stoke	Dean, Graduate School, New York University
Mr. George P. Sutton	President, American Rocket Society
Dr. Byron K. Trippet	President, Wabash College
Dr. John Wheeler	Palmer Physical Laboratory, Princeton University

ROUND TABLE NO. 6

"Public Understanding of the Scientist"

Chairman: Dr. Jerrold Zacharias
Director, Laboratory for
Nuclear Science and Engineering,
Massachusetts Institute of Technology

Dr. Samuel Brownell	Superintendent, Detroit Public Schools
Mr. Milton Caniff	Cartoonist, New City, New York
Mr. Allan Chase	President, Filmways, New York
Mr. John T. Connor	President, Merck, Inc., Rahway, New Jersey
Mr. Watson Davis	Director, Science Service, Washington, D. C.
Mr. John C. Doerfer	Chairman, Federal Communications Commission
Dr. J. Cllie Edmunds	President, Stetson University
The Rev. Joseph D. Fitzgerald, S.J.	President, Fairfield University
Dr. James G. Harlow	Executive Vice-President, Frontiers of Science Foundation of Oklahoma, Inc.
Dr. Pendleton Herring	President, Social Science Research Council
Mr. James M. Lambie, Jr.	Special Assistant, White House
Professor Harold D. Lasswell	Political Science Department, Yale University
Mr. Louis Lyons	Curator, Nieman Fellowships, Harvard University
Dr. Margaret Mead	Associate Curator of Anthropology, American Museum of Natural History, New York
Mr. Maurice B. Mitchell	President, Encyclopaedia Britannica Films, Inc., Chicago
Dr. John S. Nicholas	Master of Trumbull College and Sterling Professor of Biology, Yale University
Dr. J. Robert Oppenheimer	Director, Institute for Advanced Studies, Princeton, New Jersey
Mr. George E. Probst	Executive Director, Thomas Alva Edison Foundation, Inc.
Dr. Clifford F. Rassweiler	Vice-Chairman, Johns-Manville Sales Corp.
Dr. Laurence H. Snyder	Dean of the Graduate School, University of Oklahoma
Dr. Samuel A. Stouffer	Prof. of Social Relations, Harvard University
Mr. Charles Underhill	Staff Director, U. S. Steel Corporation, N. Y.
Dr. L. C. Van Atta	Head, Tech. Information and Education, Hughes Aircraft Company
Dr. Alan T. Waterman	Director, National Science Foundation
Dr. Jerome Wiesner	Director, Research Laboratory of Electronics, Massachusetts Institute of Technology
Dr. Arnold J. Zurcher	Executive Director, Alfred P. Sloan Foundation, Inc.

"AMERICA'S HUMAN RESOURCES

TO MEET THE

SCIENTIFIC CHALLENGE"

[redacted]

Sponsored by the

PRESIDENT'S COMMITTEE ON SCIENTISTS AND ENGINEERS

and the WILLIAM BENTON FOUNDATION

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YALE UNIVERSITY, FEBRUARY 3–4, 1958

MONDAY, FEBRUARY 3

Morning Session

9:45 a.m. Assembly
General Chairman: Dr. Howard L. Bevis, Chairman
The President's Committee on Scientists and Engineers

10:00 a.m. Welcoming Remarks:
Dr. A. Whitney Griswold, President, Yale University

10:30 a.m. Opening Address: "Toward a New Level of Excellence"
Dr. James R. Killian, Jr.
Special Assistant to the President for Science and Technology

Luncheon Session

12:30 p.m. Chairman: Dr. Eric A. Walker, Vice Chairman
The President's Committee on Scientists and Engineers

Luncheon Address: "Science—The Open Door"
Dr. Alan T. Waterman, Director, The National Science Foundation

Afternoon Session

2 - 4 p.m. Round Table Discussions

1. "Understanding the Nature of the Soviet Threat"
Chairman: Hon. Thomas K. Finletter,
Partner, Coudert Bros., N.Y.

2. "The Scientific Revolution: Challenge and Promise"
Chairman: Dr. Harrison Brown,
California Institute of Technology

3. "Educating Future Scientists in a Rounded Educational System"
Chairman: SENATOR LISTER HILL of Alabama

4. "The Economic Implications of an Adequate Science Program"
Chairman: MR. ALFRED C. NEAL, President, Committee on Economic Development

5. "Technological Requirements of the Free World and the Uncommitted Countries"
Chairman: HON. ERIC JOHNSTON, President, Motion Picture Association of America

6. "Public Understanding of the Scientist"
Chairman: DR. JERROLD ZACHARIAS, Massachusetts Institute of Technology

Dinner Session

6:15 p.m. Reception

Chairman: DR. HOWARD L. BEVIS

7:15 p.m. Dinner Address: "The Soviet Challenge"
HON. ALLEN W. DULLES, Director, Central Intelligence Agency

TUESDAY, FEBRUARY 4

Morning Session

8:30 a.m. Breakfast Address: "The Pace of Change"
HON. WILLIAM BENTON, President, The William Benton Foundation

9:45 a.m. Assembly

10-12 a.m. Round Table Discussions

7. "Conserving Our Rarest Resource — Creative Talent"
Chairman: DR. ERIC A. WALKER, President, Pennsylvania State University

8. "Forty Million Growing Minds— The Quality of Elementary and Secondary Education"
Chairman: DR. CLARENCE H. FAUST, Vice President, Ford Foundation

9. "The Coming Crisis on the Campus— Maintaining Standards with Increased Enrollments"
Chairman: DR. C. W. DE KIEWIET, President, University of Rochester

10. "Advanced Training for Superior Talent—Graduate Education and Research"
Chairman: DR. PAUL GROSS, Vice President, Duke University

Luncheon Session

12:30 p.m. Chairman: REV. THEODORE M. HESBURGH, President, University of Notre Dame

Luncheon Address: "Education in the Age of Science"
DR. LEE A. DUBRIDGE, President, California Institute of Technology

Adjournment

The following Round Table notes are intended as suggestions and not limits on discussion.

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ROUND TABLE NO. 1

Understanding the Nature of the Russian Threat

Russia's menacing upsurge in science presents far more than a military threat to the United States. The Soviet challenge is not confined to armaments. It is mounting daily in other areas—technological, industrial, cultural, ideological—which contribute weapons to modern diplomatic and economic warfare.

At stake are our relations with our Allies in Europe, Latin America, Asia and the Middle East. The future political and economic orientation of today's neutral and under-developed nations lies in the balance.

To understand fully the implications of the Soviet challenge, we need accurate and detailed information on Soviet science and technology. Do we have adequate sources of such information? Do we make adequate evaluation and use of the information? What are the facts about the quantity and quality of Soviet education? What do we know of Russian production—the end product of research and development? What do we know of Russia's increasing and well-directed program of technological aid to under-developed countries?

How can the American public be brought to understand the broad nature of Russia's threat on every front?

Chairman: HON. THOMAS K. FINLETTER
Coudert Bros., New York

ROUND TABLE NO. 2

The Scientific Revolution: Challenge and Promise

Even if there were no Russian bid for military, economic and political leadership, there would still be a compelling need for the United States to reexamine its capacity to keep pace with the demands of the scientific revolution.

This revolution is making fundamental changes in our economy and our society. Science is reshaping the world around us—transmuting elements, tapping new sources of energy, reaching into outer space, and probing the origin of life. We have entered a new phase in man's conquest of his environment and in the relation of man to man. What is the probable shape of our future society and what course will the transition take?

How should our human resources—our brainpower and imaginative skills—be deployed to cope effectively both with the immediate demands of national security and with the long-range requirements of a rapidly evolving scientific age?

Clearly, there will be a greatly increased need for creative scientific talent and high level technical competence. How can these needs be met without weakening the humanistic and cultural values of western civilization?

Chairman: DR. HARRISON BROWN
Professor of Geochemistry
California Institute of Technology

ROUND TABLE NO. 3

Educating Future Scientists in a Rounded Educational System

The scientific age demands not only a much larger number of creative scientists and skilled technologists but a broader understanding of scientific principles by men and women in every field. How can we gain public acceptance and support of the basic changes in our educational system which this will require? How must curricula be reoriented to meet the realities of the latter Twentieth Century?

How can we broaden and deepen training in science and mathematics, especially in the elementary and secondary schools, without weakening instruction in the social and cultural arts?

What are the incentives that will impel parents as well as students to consider scientific careers desirable? How do we inspire youth to accept the challenge of the unfolding opportunities on the frontiers of the intellect?

Once we have identified, motivated and inspired youth to seek higher education, should they be assisted financially to enter and remain in the college of their choice? If this is to be done, by what methods?

While educating our most talented youth, how can we assure diversity of educational opportunity for all our youth to develop their capabilities to the fullest? How can we strengthen the entire educational process and obtain a smoother transition through its various parts? What steps must we take to provide the teachers and facilities for an adequate educational program?

Chairman: SENATOR LISTER HILL of Alabama

ROUND TABLE NO. 4

The Economic Implications of an Adequate Scientific Program

Before the nation develops an adequate scientific program, we must establish some yardsticks. How do we define "adequate" in relation to military needs and the needs of expanding technology? How do we define "adequate" in terms of manpower, educational and research facilities, percentage of the national income devoted to the scientific program?

How should the necessary and large scale expansion of the educational system be financed? What is the proper share of the cost which must be reflected in federal, state and local budgets? On what basis should the division of fiscal responsibility be made?

In what proportion and on what basis should the cost of research be met from public and private funds?

What responsibility and what incentive does industry have for contributing—directly or indirectly—to the cost of education? What form should industry's contribution take?

How can the financing of costly apparatus and facilities—accelerators, radio telescopes, reactors—be equitably assigned? Will reliance on government support impede the desired progress? What alternatives, if any, are available?

What can be accomplished through the pooling of the scientific resources of the Free World?

How can the smooth progress of long-term work—essential to meet the challenges of the scientific revolution and Russian efforts to exploit it—be shielded from the swings of the economic pendulum? In a free society, how can temporary unemployment of scientists and engineers be prevented from slowing the momentum of our drive for more technological manpower? How can we maintain the volume and pace of research during lulls in the business cycles?

Chairman: MR. ALFRED C. NEAL
President, Committee for Economic Development

ROUND TABLE NO. 5

Technological Requirements of the Free World and the Uncommitted Countries

The integration of Free World resources is a vital step in answering the Soviet challenge. Is the American public prepared to have the United States take a leading part in meeting the scientific and technological needs of the rest of the Free World and the rising requirements of the under-developed countries?

Do we need to know more of the technological requirements of the newly developing countries, and the political and sociological changes which must take place concurrently?

Are we willing to match or surpass Russia in training scientists and technologists for work in other countries? Does the public understand the possible economic and political consequences of not doing so?

Years of foreign language training form a part of the equipment of the Russian technologist for service in other countries. What immediate steps should be taken similarly to equip our future scientific and technological representatives?

What legislative steps are necessary to integrate effectively the research of the Free World? How much pooling is needed? Should it be pooling of manpower or information? If information, at what stage of research and development? If manpower, how is the pooling to be effected—by a free interchange of personnel, by assignment of projects, or by joint staffing of joint projects? To what extent must we be prepared to remove the fetters of our concern with security? How can the public weigh the advantages and disadvantages of a free interchange of men, data, and ideas?

Chairman: Hon. Eric Johnston
President, Motion Picture Association

ROUND TABLE NO. 6

The Public's Understanding of the Scientist

The American people live in a new world of science and technology. Yet the general public does not fully understand the role of basic research, and has only a distant view of the scientist. How can we bridge the gap that now separates the public and the scientist, and how can we bring into sharper focus the importance of basic research?

What is the layman's image of the scientist and his work? In what respects does it need most urgently to be corrected? How can this be done?

To what extent are scientists themselves responsible for public misunderstanding of their role in society? What steps can scientists and technologists take to remove misconception and bring about better understanding of their problems and achievements?

In both industry and government, there is the problem of maintaining an environment in which scientists will maintain their self-respect and creative ability, while giving appropriate regard to practical objectives and security.

Do scientists require a special environment of freedom in order to be creative? If so, how can this special environment be provided without seeming to set scientists apart from the rest of the community?

Chairman: Dr. Jerrold Zacharias
Director, Laboratory for Nuclear
Science and Engineering
Massachusetts Institute of Technology

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ROUND TABLE NO. 7

Conserving Our Rarest Resource — Creative Talent

In the scientific age, the welfare of the nation will depend increasingly on creative intellectual talent. What are the best ways of finding, nurturing and using our supply of talented young people?

Does the environment in which our children live tend to repress creativity? How can we make a greater effort to broaden their horizons, stimulate their curiosity, and fire their imagination?

How can the search be broadened and refined? Present testing methods produce, at best, approximate measurements. Is a major and costly research project justified and can more reliable testing procedures and evaluation criteria be established? What alternative methods for discovering creative ability are available? Can parents and students be persuaded to accept and support the results of talent tests?

How can our future brainpower be guided into creative channels? What is the most effective way of awakening, not only an interest in, but a dedication to scientific discovery?

Can our society and our schools modify the preoccupation with conformity and encourage the individualism on which creativity thrives? How can we make intellectual development of the individual as respected a goal of the public schools as the teaching of good citizenship and the virtues of group activity? What can be done by the public information media to counteract the stereotypes which have been found, and create a truer image of the scholar? Can we combat the fear among students of being regarded as a "brain"?

Chairman: Dr. Eric A. Walker
President, Pennsylvania State University

ROUND TABLE NO. 8

Forty Million Growing Minds—The Quality of Elementary and Secondary Education

Developing creative talent and educating the brainpower of the future is the responsibility of the entire school system. Curiosity must be stimulated and intellect sharpened in the early elementary grades if students are to reach their full potential in college and later life. Can mass education meet the differing needs of a wide range of native ability? Should special programs or facilities be provided for the gifted child?

How can reasonable equality of opportunity be assured for talented youngsters in different parts of the country—especially in rural areas? Can we reconcile a diversified and multi-level curriculum with our cherished concepts of egalitarian education?

There is ample evidence that even the "average" child is not being given the stimulating education which the scientific age demands. Should thorough instruction in subject matter fundamentals be reinstated as the over-riding purpose of the schools? Is there public support for such a change of emphasis? How could such support be aroused if it is considered desirable?

Good education demands good teachers. What practical and immediate steps can be taken to raise the professional, social and economic levels of the teacher? How can more capable young people be persuaded to choose teaching as a career? What changes are needed in the courses taken by prospective teachers? What can other segments of the community—professional societies, civic groups, industry, college staffs—do to supplement and strengthen teaching in the schools?

Chairman: Dr. Clarence H. Faust
Vice President, Ford Foundation

ROUND TABLE NO. 9

The Coming Crisis on the Campus—Maintaining Standards with Increasing Enrollments

Higher education enrollments will grow as much during the next ten years as during the nearly two centuries since the republic was founded. How should this expansion be planned and financed?

Should present institutions be enlarged or should new colleges be founded? Should admissions be more rigidly controlled?

The private colleges are planning only moderate increases in their student bodies. Is it desirable that virtually all of the expansion be in public institutions? Will private institutions become the source of scholarship and of the intellectual elite, while the public institutions mass produce partially-educated graduates?

What reorganization is required so that available faculty can handle the large number of students? Should more of the burden be put on the individual student? Are films and TV circuits useful tools for college-level instruction? What steps can be taken to maintain and raise the quality of instruction? How can we encourage more able people to go into college teaching?

Should junior and community colleges relieve the pressure by absorbing much of the freshman and sophomore classes? Should they aim primarily to provide two-year terminal courses? Are states and local communities moving fast enough in this field?

Should students with limited capacities be diverted to two-year terminal courses? How can aspiring students, their parents, and society as a whole be persuaded that a competent technician is a greater national asset and a better and happier citizen than a mediocre scientist or engineer?

Chairman: Dr. C. W. de Kiewiet
President, University of Rochester

ROUND TABLE NO. 10

Advanced Training for Superior Talent—Graduate Education and Research

Even before the fresh impetus of the Soviet challenge, the number of doctoral aspirants was expected to double during the next decade. What must be done to provide these greater numbers with the individual attention, specialized training, and the facilities required for graduate study?

Can existing graduate departments be expanded, or are some already too large? Can the middle-sized university provide more graduate study?

How can the quality of graduate training be improved? Are we wasting the most productive years of our young scientists in over-long graduate courses?

Obsolescence diminishes the effectiveness of our pool of scientists and engineers. Should graduate schools provide more formalized refresher courses to keep working scientists and engineers abreast of developments in their field? Can fellowships and research associateships be supplemented to appeal to and accommodate a much higher proportion of working scientists and engineers?

Adequate research facilities are essential to graduate training. What steps can be taken to improve research facilities and to make them more widely available? Where and how can financial support be obtained?

Can the objections be overcome from state legislators to supporting graduate schools in state institutions, many of whose students are from other states or even other countries? How can public support for graduate schools and research departments be stimulated?

Chairman: Dr. Paul Gross
Vice President, Duke University

CONFERENCE NOTES

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