

UNCLASSIFIED

QUESTIONNAIRE FORM M.D. -H-1

C O V E R S H E E T

TO: J. R. OPPENHEIMER

NOTE: This Form has been requested by the Manhattan District for purposes of bibliography and possible future publicity. Please regard this questionnaire as ~~SECRET~~, and answer all questions fully and in detail. Under Item No. 20 use actual names of processes, materials, etc. Do not use code symbols.

PLEASE RETURN TO _____ BY _____

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FINAL DETERMINATION
UNCLASSIFIED
L. M. Redman
FEB 11, 1981

UNCLASSIFIED

VERIFIED UNCLASSIFIED
PUBLICLY RELEASABLE
LANL Classification Group

Daniel Lynch

8. ELEMENTARY AND HIGH SCHOOL EDUCATION:

NAME OF SCHOOL	LOCATION (CITY & STATE)	YEARS	
		FROM	TO
Ethical Culture School	New York, N.Y.		

9. UNDERGRADUATE EDUCATION:

COLLEGE OR UNIVERSITY	LOCATION (CITY & STATE)	MAJOR FIELD	DEGREE	YEARS	
				FR	TO
Harvard University	Cambridge, Mass.	Chemistry	BA	1924	1925

10. GRADUATE EDUCATION:

COLLEGE OR UNIVERSITY	LOCATION (CITY & STATE)	MAJOR FIELD	DEGREE	YEARS	
				FR	TO
Cambridge Univ.	England	Physics		'25	'26
Gottinger Univ.	Germany	Physics	Ph.D.	'26	'27

11. FELLOWSHIPS, SCHOLARSHIPS, INTERNSHIPS, TEACHING ASSISTANTSHIPS, HOSPITAL RESIDENCIES: (See No. 17)

FIRM OR INSTITUTION	LOCATION (CITY & STATE)	TITLE	YEARS	
			FR	TO
Harvard University	Cambridge, Mass.	Nat'l Research Fellow	1927	1928
Calif. Inst. of Tech.	Pasadena, Calif.	"	"	"
Univ. of Leyden	Leyden, Germany Holland Zurich, Switzerland	Internat'l Edu. Bd. of Fellowship	1928	1929

12. HONORARY DEGREES:

COLLEGE OR UNIVERSITY	LOCATION (CITY & STATE)	DEGREE	YEAR

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13. MEMBERSHIP IN HONORARY AND PROFESSIONAL SOCIETIES:

SOCIETY	CLASS OF MEMBERSHIP	YEARS		OFFICE HELD & YEAR
		FR	TO	
Amer. Physical Soc.	Fellow			
Amer. Academy of Arts and Sciences	Fellow			
Nat'l Acad. of Sciences				
Amer. Philosophical Society				

14. LISTING IN "AMERICAN MEN OF SCIENCE", "WHO'S WHO" AND SIMILAR PUBLICATIONS:

PUBLICATION	EDITION OR YEAR
American Men of Science	
Who's Who	
Who's Who in the Western Hemisphere, etc.	

15. OFFICES HELD IN NATIONAL SOCIAL AND FRATERNAL ORGANIZATIONS:

ORGANIZATION	OFFICE	YEAR

16. PRINCIPAL HOBBIES:

17. FULL TIME TEACHING APPOINTMENTS WITH COLLEGES AND UNIVERSITIES:

COLLEGE OR UNIVERSITY	LOCATION (CITY & STATE)	TITLE	YEARS	
			FR	TO
Calif. Inst. of Tech.	Pasadena, Calif.	Ass't Prof.	1929	--
		to Prof.		
Univ. of California	Berkeley, Calif.	Ass't Prof.	1929	--
		to Prof.		

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18. LIST LAST THREE TECHNICAL OR RESEARCH POSITIONS PRIOR TO CONNECTION WITH THE MANHATTAN ENGINEER DISTRICT:

DESCRIPTION OF POSITION OR DUTIES	FIRM OR INSTITUTION	LOCATION	TITLE	YEARS	
				FR	TO
Teaching and research	Calif. Inst. of Tech.	Pasadena, Calif.	Ass't Prof Prof.	1929	---
Teaching and research	Univ. of California	Berkeley, Calif.	Ass't Prof Prof.	1929	---
Research	OSRD - S-1 Project	Berkeley, Calif.	Project Leader	1942	1943

19. PUBLICATIONS: List principal scientific contributions in the form of publications, inventions, and patents prior to connection with the Manhattan District.

Some 60 papers on the positron, cosmic ray showers, mesotron, theory of fields, quantum mechanics and nuclear physics.

20. TECHNICAL OR RESEARCH WORK FOR, ON, OR IN CONNECTION WITH THE PROJECT NOW UNDER THE SUPERVISION OF THE MANHATTAN DISTRICT: (Include work performed under auspices of NDRC, OSRD, etc., prior to establishment of Manhattan District)

FIRM OR INSTITUTION	LOCATION (CITY & STATE)	TITLE	DATES	
			FR(MO&YR)	TO(MO&YR)
OSRD - S-1 Project	Berkeley, Calif.	Project Leader	June, 1942	Mar., 1943
Univ. of California	Santa Fe, N.M.	Director	March, 1943	---

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20. (Continued)

DETAILED DESCRIPTION OF WORK PERFORMED (Do not use code symbols. Use actual names of materials, processes, etc.)

1941: Started thinking about fission bombs. Estimated efficiency; worked on assembly problems; consulted with the National Academy Committee.

June, 1942: Undertook direction of theoretical and experimental work on bombs for Metallurgical project.; studied problems of super bombs with Teller, Betha, Serber, Van Vleck. Attempted to coordinate nuclear physics measurements at Minnesota, Wisconsin, Rice, Chicago and started projects at Univ. of California and Stanford Univ. Developed theory of pre-detonation and preliminary theory of radiation. Acted as consultant to Berkeley Radiation Laboratory project. Invented magnetic shims.

March, 1943: Was appointed Director of Project Y. Moved to Site Y and got to work.

DATE July 4, 1945

Signature *J.R.O.*