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Office Memorandum • United States Government

DIRECTOR, FBI

DATE 7/16/51

SAC, BALTIMORE

SUBJECT: 🐫

Espionage - R --(Bufile 65-58805)

MR. LEON MEDFORD, time-keeper for the American Stores Company, Hurlock, Maryland, has advised an Agent of this office that GEORGE AYERS COVENTRY, another employee of the American Stores Company, is related to EMIL KLAUS FUCHS.

MR. MEDFORD stated that it is his understanding, from information received from COVENTRY'S father, C. ARRAS COVENTRY, that GEORGE COVENTRY is a nephew of Fuchs. Concerning GEORGE ACOVENTRY, MR. MEDFORD advised that he originally lived at Philadelphia, Pennsylvania, and that he came to Hurlock, Maryland approximately 6 years ago to accept employment as Production Manager of the American Stores Company at Hurlock, Maryland. MEDFORD stated that during World War II COVENTRY made a trip to the southwestern part of the United States on a shell hunting trip for the Philadelphia Academy of Natural Sciences.

MR. MEDFORD further advised that during the time he has known \wedge^{\vee} : GEORGE COVENTRY the latter had made no statements which would cause him to suspect COVENTRY of being un-American, and that in fact. COVENTRY in his conversation appeared to be extremely loyal to the United States. He furnished the following description of COVENTRY:

Mame Race Àge Height Weight Byes Mir dareas

Former Address Marital Status GEORGE ARRAS COVENTRY White Approximately 48 175 pounds Unobserved Sandy Palmers Corner near Hurlock, Dorchester County, Maryland Philadelphia, Pennsylvania Married to the former EVELYN HARPER, Hurlook, Maryland.

RJF/JE 65-1708

ca: New York Offi

65-58805-1512

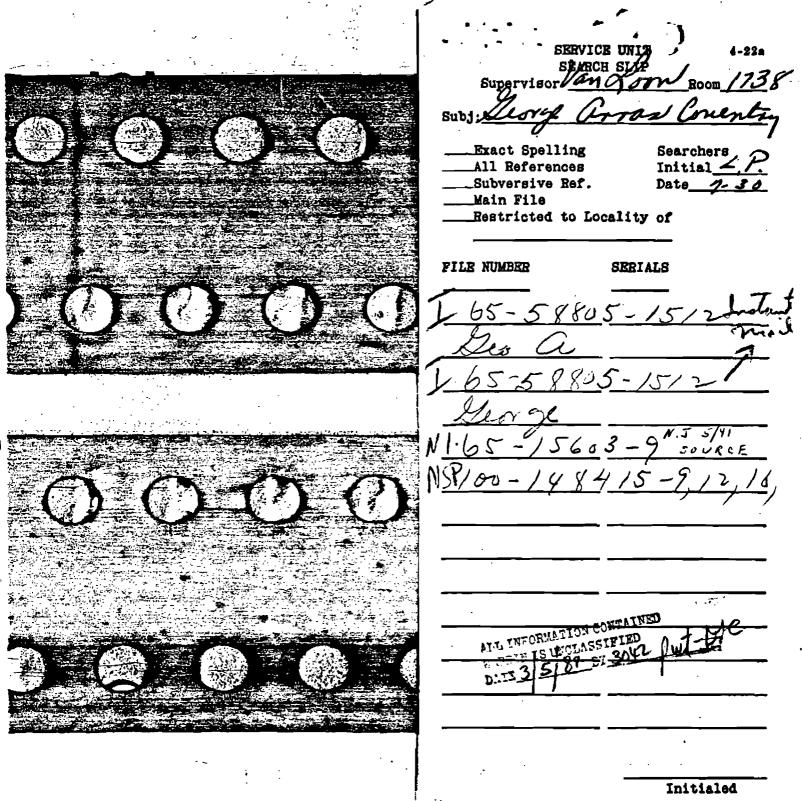
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L/DIRECTOR, FBI 65-1708

MR. MEDFORD stated that COVENTRY'S employment record is not maintained at Hurlock, Maryland, but could be located at the Personnel Office of the American Stores Company, 424 North 195th Street, Philadelphia, Pennsylvania.

The indices of the Beltimore Office contained no references pertaining to GEORGE AYERS COVENTRY, and the above is being furnished for the information of the Bureau and the New York Office.



SAC, Baltimore

Director, JBI

FOOCASE ESPIQUAGE • R

Re Baltimore letter dated July 16, 1951, reporting that Mr. Leon Medford, time-keeper for the American Stores Company, Hurlook, Maryland, believed that another employee of the American Stores Company, George Ayers Coventry, was related to Klaus Fuchs, possibly a nephew of Fuchs.

Bufiles fail to reflect any information identifiable with Coventry.

Baltimore is requested to interview Coventry to determine whether he is related to or knows Klaus Fuchs. In the event he has any information concerning Fuchs activities or background, all details should be obtained.

CORDED & 65-58805 _ | 5 | 1 | |

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ALL INFORMATION CONTAINED
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FEDERAL BUREAU OF INVESTIGATION FOIPA DELETED PAGE INFORMATION SHEET

	Page(s) withheld entirely at this location in the file. One or more of the following statements, where indicated, explain this deletion.
	Deleted under exemption(s) with no segregable material available for release to you.
	Information pertained only to a third party with no reference to you or the subject of your request.
	Information pertained only to a third party. Your name is listed in the title only.
	Documents originated with another Government agency(ies). These documents were referred to that agency(ies) for review and direct response to you.
	Pages contain information furnished by another Government agency(ies). You will be advised by the FBI as to the releasability of this information following our consultation with the other agency(ies).
	Page(s) withheld for the following reason(s): Disposition of document in Gold 65-57449-803
	For your information:
Ø	The following number is to be used for reference regarding these pages: 65-57449-NR dated 8/8/5/

ice Memorandum • united states government

: DIRECTOR, FBI

DATE: August 21, 1951

PROM : SAC. BALTIMORE

SUBJECT: FOOCASE

ESPIONAGE - R (Bufile 65-58805)

Rebulet August 3, 1951.

GEORGE AYRES COVENTRY was interviewed at Hurlock, Maryland, on August 20, 1951, at which time he advised that to his knowledge he is no relation to EMIL KLAUS FUCHS. His only knowledge of FUCHS has come to him through recent articles appearing in newspapers.

Mr. COVENTRY advised he was born on August 2, 1905, at Philadelphia, Pennsylvania. He attended elementary and high schools in and near Philadelphia and also attended the University of Illinois. His mother's maiden name was HATTIE HUSTER, who was born in the United States, but whose parents emigrated from Value of the N Frederickshoff, Germany.

Mr. COVENTRY stated he was formerly associated with the Academy of Natural Sciences in Philadelphia and had engaged in expeditions during 1941 and 1942 to the Yadkin River Valley in North Carolina, as well as others in Georgia and Tennessee, to collect various species of fish and crustacean life.

The following is a description of Mr. COVENTRY as obtained through observation and interview:

> Name Race Age Height Weight Build Complexion Eyes ATIL THEORMATION CONTAINED

GEORGE AYRES COVENTRY White 46. born 8/2/05, Phila. Pa. 5'8" 190 lbs. Heavy Ruddy, freckled Brown, horn rimmed glasses

JMM: RAR

65-1708

CC: NYC (65-15136)

INDEXED . 121

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AUG 23 1951

AFINE

Re: FOOCASE ESPIONAGE - R (Bufile 65-58805)

> Hair Teeth Education

Occupation

Residence

Marital Status

Sandy and sparse
Stained, appear bad
University of Illinois,
Masters Degree - Chemistry
Chemist - American Stores Co.,
Hurlock, Md.
P. O. Box 246, Ennals Wharf,
Dorchester Co., Md.
Married, EVELYN HARPER COVENTRY

-REFER UPON COMPLETION TO THE OFFICE OF ORIGIN-

Locking the Door Too Late

Lit is difficult to read the esploned report
of the Joint Atomic Energy Committed without
experied cing a series of shudders. The shockingly successful nature of Russian spy operations in our most secre, atomic laboratories
and installations is laid bare in this detailed
case history. The story has been told in piecemeal form before. The committee, however,
has litted the pieces together in their proper
relation to one another. The total effect is
truly frightening in the over-all implications.

The Soviet penetration of our innermost nuclear secrets during and since World War II undoubtedly tops all espionage conspiracies in history, when measured by the importance of the information obtained. The committee gravely points out that it was not necessary for the Kremlin's spies to force their way into guarded laboratories or alip into plants by subterfuge. They did not carry tear gas pencils of wear false mustaches. They were welcomed into the sanctum sanctorum as partners in the atomic bomb enterprise. They even contributed valuable knowledge to the partnership. When the time was ripe they betrayed the trust placed in them and gave to their Rusahn masters all they had learned of the A-bomb and the H-bomb, which was just about everything there was to know up to then about poth weapons.

According to the Joint Committee, three men stand out above all others as the chil contributors to Russia's knowledge of atomic weapons. The report lists them in this order: (1) Dr. Klaus Fuchs, the German-born British physicist now serving 14 years for his traitorous orime. (2) Dr. Alan Nunn May, British scientist who was convicted as a result of the Canadian spy expose of 1946. And (3) David Greenglass, for-mer Army sergeant, recently convicted in New York as a member of the Fuchs-Gold-Rosenberg spy ring. Another scientist, Dr. Brune Pontecorvo, the Italian-born Britisher who disappeared last year behind the Iron Curtain, also is given a high rating. The report credits these four with advancing Russia's atomic energy program at least 18 months. "In other words," says the report, "if war should come, Russia's ability to mount an atomic offensive against the West will be greatly increased by reason of these four men. It is hardly an exaggeration to say that Fuchs alone has influenced the safety of more people and accomplished greater damage than any other apy not only in the history of the United States but in the history of nations."

O

Russia did not waste time with secondraters. Her spies included top-ranking scientists and technical men. What one spy was unable to steal, others in the inner ring were able to supply. Fuchs and Greenglass, between then, knew all the major secrets of Los Alamos. Fuchs allo was fully informed on the developments of the Ridge and at Columbia University. May ard Pontecorvo took care of the work at Hanford, Wash, center of plutonium production, and

Glavin Nichil and researches in Canada. Why was the tack of the Boviet spice so easy? Le bo The Joint Committee attributes the security breakdown mainly to two factors: (1) The haste of the urgent wartime project, and (2) our policy of accepting at face value the "clearance" Tele. Room given foreign scientists by the British, who were our partners in the Manhattan Engineering Project. The report points out that the FBI was not permitted to question such clearances. Reassuringly the report brings out that the stable door now has been locked. The FBI has reported no successful act of atomic espionage against this country since passage of the Mc-Mahon Act in the middle of 1946. But that assurance tends to lose its significance after a reading of the startling details of the espions to which took place prior to that. Apparently most vital of our secrets already have been divered to the Russians. all toporwation contained Page RECORDED VIEW Times-Herald 705-1514^{sh. Post} Wash. News Wash. Star N.Y. Mirror N. Y. Compass

Date:

OFFICE OF DIRECTOR, FEDERAL BUREAU OF INVESTIGATION

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HOW THE RUSSIANS GOT WORLD'S BIGGEST SECRET

Atomic Spy Ring in U.S., Canada and Britain Operated From the Start

the F. B. L, which is on the train of still more members of the ring. But enough has come out to show for the first time the technique of the most mocossful opera-tions in cloak-and-dagger history.

The principal atom spice exposed

Klone Smil Juline Puchs, British inen, 41 yeure sid, thin, sallow, speciacied, German-born physi-s, and putages from Either in

citizen, 29, beary, young, machinist ten of immigrants on New York's lower east side.

Anatoli A. Yeloodeo, Russian citizen, Soviet Vice Consul in New York from 1841 to 1848, a shadowyrigure wanted by Federal authori-ties, now believed to be in the Soviet L'nion.

A PROPERTY OF THE PARTY OF THE

The story really begins when Fuchs came to the United States in June, 1944 as one of the British stomic scientists to assist in the search for an atom bomb. He had detailed instructions on how to contact the spy ring in America. One side, Queens, he met Gold and they identified each other by innocentsounding sentences that served as "recognition signals." Neither man knew the other by sight or name. Fuchs promised to give Gold information about the "application of nuclear fission to the production of a military weapon."

This weapon, of course, was the atomic bomb, production of which Ethal, and all were party comrades was started early in 1948 by the for years. Now David was an United States with the cooperation of Britain and Canada. The Soviet Umon, the other major ally in the war against Ritier, was excluded from the secret, but determined to

v, whom he knew only as "John," a Manhettan street and exside the newspaper the of Gold's conversation with a Bill the Bremlin probably had already seemted the atom home project. Fuchs, for one, a Commuist since adulatinds, had been tip-ing the Russians ever since he egen doing atomic research at st sipes adule ren doing stomic research rmingham University in 1942.

Central Park Rendesvous

Again at twilight in mid-July, Park West at Ninety-sixth Street, fixed to spy. But later that night to tell him he was working in a he "thought about it and the foliaboratory on Church Street on a lowing morning" told his wife "he British-American project at producing an atom young couple assumed then the And again, Gold gave risk of death for treason, we written report by David kept his word on a fur-of the old newspaper lough in New York in January, 1948. switch. Thus the Russians learned Rosenberg called upon Gre north Ing to Rissian larran of the Manhettan Project, our at his spariment for enviting of and arms for the overall work value on the atomic bomb." As a

The opp tried that ended here him," a faith that they were serves week disclosed the dramatic ing a higher loyalty than patriotis week disclosed the dressorie ing a higher loyalty than patrioting a hose Scotet spice stole the lam. At this time, Gold was the law of the stom bond in little lam. At this time, Gold was the law of the stone then too years. The volole from scientists inside the stom provided by it is for the stone store of the ring still more steenders of the ring on to Moscow. Gold, who had been the chooleest of the ring for the Russians for ten the first time the technique of a of the most successful operate in the first time the technique of a closk-end-degree history.

By IRA HENRY FREERIAN.
The principal atom spice exposed of her "apparatus."

Gold took over a "auther" these shall yield took over a "auther".

of Bentley's thirty "contacts," Reoften had to travel to other cities and five them give innermalized from Yalaviev. Sometimes the spier a few hand delicing as a neet, get from Yalaviev. The Market of the Mills of the Mills children to The plot but not not to be the major consideration.

Nova of a Ta

In January, 1945. Fuchs on a street in Cambridge, Freche said he was now Mare working at a large experimental station "called Los Alamos, N. M." and mentioned a "lens" that was ties." a vital part of the atom bomb. When Gold repeated this to Yakovlev one night early in February at Ninth Avenue and Twenty-third Street, the Russian became very agitated and pressed Gold sguared and pressed Gold to "scoup his memory clean for any scrap about this lens."

Unknown to Gold, what was exciting the chief was that he had just received from another memer of the ring skatches of thes lenses, which were high explosives to focus detensition waves and cause an "implosion" of the atom bomb

berg, a kind of major dome for Yakoviev in charge of another circle of scientific spies since 1944, Rosenberg was married to David Greengiam's older sister, Army technical sergment susigned as a machinist to the major atom

One night in November, 1944, Greenglass's wife, Ruth, was invited to dinner at the Re berge apartment in Enteleproce Villaga, Ethal Rossaburg told i "Julius has finally gotten to giving information to the Soviet Union." Then Julius calmly told Ruth that her husband was information to the Russiana

Ruth repeated this ples when she visited David a little later at Los Alamos. The surgeant was amazod again at twilight in mid-July, at the news. At first, he was d. Fuchs met Gold on Central "frightened and worried" and rewould give the information."





hidesway on Long Island. Thus six months before the first atom-bomb was dropped in a test at Almagordo in the New Mariesa

in a good spot to pick up informa-tion on the bomb. He was free York in September He worked "directly on apparatus gave Rosent that went into the bomb." When rate descrip white bedge," or top ecientists, Whose very names were never med "talked about their activitios," Greengiam would "listen very avidly," often questioning them "without their knowing it." He and Fuchs knew nothing of each other, although they were both spying for the Soviet at Lee Alamos at the same time.

In May, 1945, Gold set haddled with Takoviev at a table in a café at Forty-second Street and Third Avenue. Takoviev ordered him to New Mexico by a "devious route" to pick up packets of stomic data from Fuchs in Santa Fé and from Greenglass in Albuquerque. Since Gold had never met Greengians, he was to identify himself by a piece of a cardboard hox-top cut in an odd shape. Rosenberg had already given Ruth Greengless the matching place to carry to her

Gold followed orders. The papers from Fuchs he put into an envelope marked "Doctor." After matching bux-tops with Greenglass and giving him \$500 from Yakoviev, Gold hastily snatched from the

that improved bomb. Rosenbe cried, "Oh this is very good?" a ot his wife to type it all out a bridge table in their living Julius incidentally mention had swiped the pro while he was doing military just stuck it in the bris

Spying Continued

The F. B. L has t security curtain on and atom spine activity after that cept to say that spying. And the F. B. L. Boot Yard in England, and the Ca authorities went on

The first break for the d came in Ottawa, and that pectedly. On Sept. 5, 1945, nks fled the Seviet E the Canadian Governm thoughtfully brought with



Harrioed, 9

FINANCIAL CONDITIO

CIPALS IN THE RUSSIAN ATOMIC SPY RING.









a ring of stantic spice in London.

the papers the name "pure did not bear fruit for four years.

Again the counter-spying without siled for years. Then, without varning, Dr. Fuchs was seized in mary, 1860, at Harwell, Engand where he had been chief of the theoretical division of the Atomic Energy Project since 1946. registed interrogation for a month, then signed a confession, which has not yet been entirely declosed, that sent him to prison

The second second

The F. B. I questioned him as to a courier in America. Fuchs had sme or address, of course; he ild only describe a short, stocky n, about 40, a biological chemapparently of Russian extrac-a. In this country, the Federal stigated 1,200 patiently inve m who answered the description wing for errors by Fuchs, Gold already under suspicion as a Communist since 1947, fitted bes

Fuchs identified his photograph in

mail by m ports along an "underground rail-way" to Mexico, Sweden, Switzer-

Gold was seized at home in May. His family and neighbors were amazed that the quiet, obscura, hospital chemist should be such a dangerous character, Giving \$5,000 to Greenglass for expenses, Rosen-berg pressed him to fice at once with Ruth and their two small children. Gold confe ed after elete days grilling. Greengiam also gave up and confessed.

these two state's wit-

UNITARIANISM

es at home in June, 1960. with his family, did reach Sobell, with his family, did reach Anyway, broken or not, the Marko, but was deported back into Soviet spy ring feas already done Federal hands in Texas, He and its work. From Fuchs it learned ملطات

So far, twelve Americans have the spice had issued—should have been arrested, three of them con-been arrested, three of them con-ben able to make a bomb consid-victor; two more have pleaded erably before September, 1849.

nesses, the F. R. I. got a line on guilty; two others have been con-the Rosenbergs, Morton Sobell, an victed of comparing to tell false electronics engineer who was a stories about espionage activities

the m The F. R. I has binted that title circles there is speculation over atom spice will be arrested that Russia—on the basis of what

Why Industries, Should Come To Oklahoma ... NOW!

Johnston Murray OKLAHOMA



"In recent years the state of Oklahoma has shown a remarkable industrial growth. This has been due to three things: first, recognition by manufacturers that our state has a type of labor unusually efficient in factory work; second, the favorable 'climate' provided industry by state and local governments; and

ALL INFORMATION CONTAINED

Condensed Statements = 32

ÆTNA LIFE IATED COMPANIES

FLED WITH THE STATE OF NEW YORK

Morgan B. Brainard, President

AS OF DECEMBER 31, 1950

ETNA LIFE INSURANCE COMPANY

search for an atom bomb. He had detailed instructions on how to con- citing the chief was that he had Avenue. Yakoviev ordered him to counding sentences that served as cause as "implosion" of the atom Gold had never met Greengiam, Yard in Engiand, and the Causelin recognition signals." Neither man bomb know the other by sight or name. Friens premised to give Gold information shout the "application of nuclear fission to the production of a military weapon.

This weapon, of course, was the atomic bomb, preduction of which was started early in 1948 by the Union, the other major ally in the bomb plant at Los Alamos. war seninst Hitler, was excluded Dinner With the Rosenbergs from the secret, but determined to phare it.

project. Finths, for one, a Communithe the Bussians ever since be seren doing statute research at Birmingham University in 1943,

Again at twilight in mid-July, written report by Thus the Russians learned code name for the overall work value on the atomic bomb."

guarded secret of World War II. in words and diagrams was in charge of the aspionage out of a kind of "ideal-livered the goods to them at a

atomic scientists to assist in the scrap about this lens."

Unknown to Gold, what was ex- at Forty-second Street and Third

berg, a kind of major dome for in an odd shape. Rosenberg had came in Ottown, and that sell David Greenglass's older sister. Dibel, and all were party comrades for years. Now David was an United States with the couperation Army technical sergeant assigned of Britain and Canada. The floviet as a machinist to the major atom

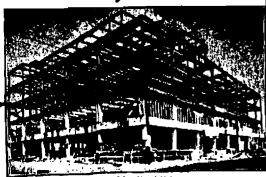
One night in November, 1944, by, whom he know only is "John," invited to distart at the Rosenbergs spartment in Kulckerbocker time street and of Village, Miled Resemberg told her Rules that her had information to the Ru Roth repeated this ples when she

visited David a little later at Los Alamos. The sergeant was smaned 1944. Fuchs met Gold on Central "trightened and worried" and its-Park West at Ninety-sixth Street, fused to spy. But later that night him he was working in a he "thought about it and the fulinheratory on Church Street on a lowing morning" told his wife "he British-American project would give the information." The David kept his word on a

lough to New York in January, 1845. Rosenberg called upon Greengium Manhattan Project, our at his spartment for "snything of machinist, Greengiass was making The Boviet spy ring intensified molds for the detonation lenses efforts to crack the most closely which he sketched for Rosenberg

In an appointed spot in an al out all the actual spice cove of a movie theatre, Resemberg Russians, but American left a coded request for a meeting communists, committing with his Russian friends. He de

Planning to BUILD?



ad Unity Building for P. Ballander B. Sonz, Newerl, N. J

with Yakoviev at a table in a cafe Spying Continued

he was to identify himself by a authorities went on counter typing, his courier in America. Fuchs had That other source was Rosen-piece of a cardboard box-top cut The first break for the dete

from Funhs he put into an envelope the Canadian Government.

the theoretical division of the Atomic Energy Project since 1946. The F. B. L has rung town & He registed interrogation for a tact the my ring in America. One just received from another mem New Mexico by a "devious route" security curtain on most. of the month than signed a confession, evening an a drab street in Wood- ber of the ring sketches of those to pick up packets of atomic data atom spice activity after that, which has not yet been entirely side, Queens, he mat Gold and they lenses, which were high explosives from Fuchs in Sants Fe and from capt to say that they went disclosed, that sent him to prison identified each other by innocentto focus detonation waves and Greengians in Albuquerque. Since application for fourteen years. The F. B. I. questioned him as to

berg, a kind of major dome tof in an odd shape. Rosenberg and came in Unions, and the periodic control of another already given Ruth Greenglass the periodic. On Sept. 2 1945 in the man, about 40, a biological chemicities of accumulate spice since in the country to be come once once other spice since in the country to be come to the country to be country. The Federal Counselled fled the Septial Statement Gold followed orders. The papers there and sought minomary with men patiently investigated 1,200 marked "Doctor," After matching thoughtfully brought with him a allowing for errors by Fuchs, Gold bon-tons with Greenstam and six- double armful of amoried angies abready under suspicion as a Combox-tops with Greengiam and giv-double armful of amorted paging already under suspicion as a Coming him \$500 from Yakoviev, Gold hastily snatched from the 1966, municipal since 1947, fitted best.

WILL AUGI AND UNKER TWO SMALL children. Gold confessed after eight days grilling. Greenglass also gave up and confessed.

From these two state's wit-

ADVERTISEMENT

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andau, Anell E. Silli D. M., In fallowskip Hall, Bitth Street and



ORRIVINGS HOLLWHOLMS TIV

AMPLED WITH THE STATE OF NEW YORK

Harringh, Cam

America

Assets

Continues reserve

Morgan B. Brainard, President

FINANCIAL CONDITION AS OF DECEMBER 31, 1950

ATNA LIFE INSURANCE COMPANY

The premium income was \$316,948,847. an increase for the year of \$49,935,780. Total insurance in foace at the and of

the year was \$9,374,382,305, an increase of \$1,187,529,505.

Assets were \$1,812,314,530, an increase for the year of \$169,539,975.

THE JETNA CASUALTY AND SURETY COMPANY

The premium income was \$90,326,044, an increase of \$3,807,012.

Amers were \$176,817,670, an increase of 412,480,174

THE AUTOMOBILE INSURANCE COMPANY

The premium income was \$44,540,179. an increase of \$2,211,150.

Assets increased \$11,576,242 to 100 0 11 77 1

ATTNA LIFE INSURANCE COMPANY

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THEATNA CASUALTY AND SURETY COMPANY

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THE AUTOMOBILE INSURANCE COMPANY

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Johnston Murray

OKLAHOMA

"In recent years the state of shown a remarkable industri has been due to three things: by manufacturers that our of labor unusually efficient second, the favorable 'clif industry by state and local g third, our advantageous cel the nation. I feel the needs production and defense proj to emphasize these factor favorable for plant location.

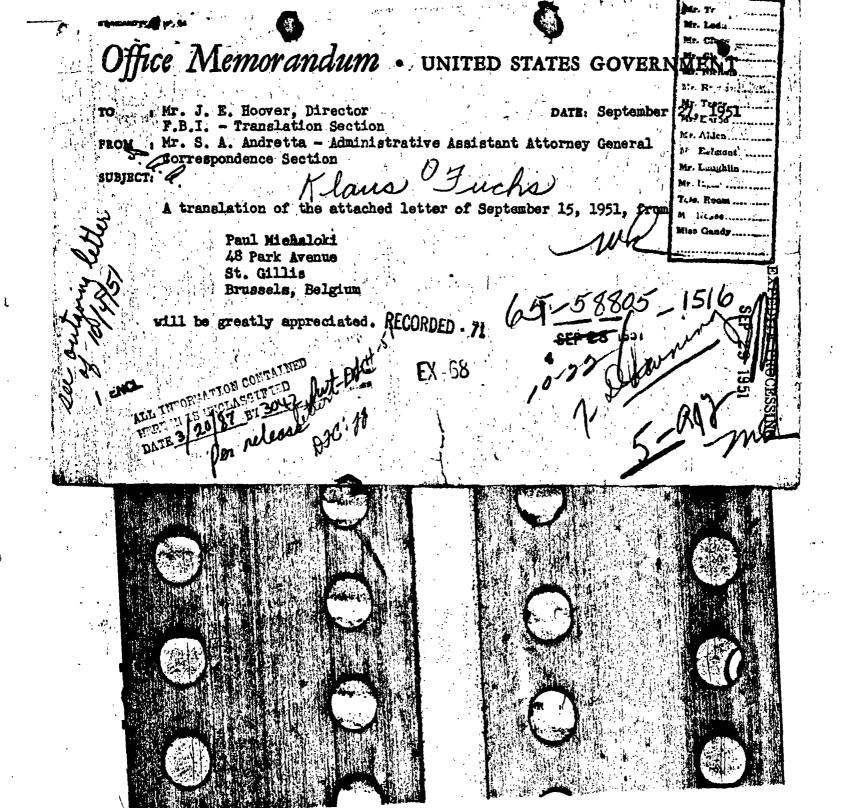


PACTUAL EVIDENCY

Increase in Manufacturing Payrolls-Oklaboma 34% National Average 20%

Per Capita Income 1940-49

All dames soor bureaut



MD 5 - 58805 - 1516

6.5 - 58805 - 1516

6. A. Andretta - Administrative

Mr. S. A. Andretta - Administrative Assistant Attorney General (Correspondence Section - Room 6112) Director, FEI

PAUTHICHAICKI (ON XMICHOLSKI)

1.8 PARK AVENUE St. OILLIS BRUSSELS, BELOIUM

letter dated September 27, 1951.

The foreign language material is being returned

October 4, 1951

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translated from Frence

ditive to the trial of DOCTOR KLAUS FUCHS

September 15, 1951

(this part in English):

Master, the request rooms hereto-be the Court of Justice Justice Palace Vanhington Her Tork u.s.1."

Monorable Sire

I, the undersigned, take up and petition, exercising right of syllogism, in behalf of DOCTOR FUCHS of the Faculty of Atomic Sciences, already sentenced by the Supreme Court of Appeals to ly years solitary confinement at hard labor.

Taking cognisance, as matter of fact, of his arraignment before his Judges, called on to defend the Atomia Energy, Cosm-hydre, Citro, Cycle secret - in making appeal not in any way connected with its degrees of integration, fabrication, premises rightly reserved for (secret) terms, which is the beginning, his knowledge of the structure and defense of it prejudices his judges and gives right to sentence.

During his dangerous ordeal, debarred through "possibility or impossibility" enclosure irrespective (of) his will to be able to reply to Jurisprudences (inextense) by publicly citing benyeelf-satisfaction regarding splitting the atom.

The present (undersigned) party being dased, and acting In order to appeal and with liberation as objective, offers to you homage by virtue of, and rightly being Master, and (also) his distant coordination and his highest regards.

> PAUL MICHOLSKI (OF MICHOLSKI) (signed) 48 Avenue du Pare St Gilles, Brussels (Belgium).

(Sent by Registered Mail, postmarked at Brussels, 9/15/51; envelope) addressed to "Master of the Request Room, Court of Justice, Palace) (of Justice Washington - New York U.S.A.")

Translator's note: This disjointed letter may have been translated into French from another language.

65-58\$ 05-1516

anslated by: lores F. Crawford .0/3/51

Tolson

LOWDON--A BRITISH LEGAL COMMITTEE MET TODAY TO CONSIDER DEPRIVING KLAUS FUCHS, COLLITED SOVIET ATOMIC SPY, OF HIS NATURALIZED DRITISH

INFORMATION ON THE CASE WAS PROVIDED BY ATTORNEY GENERAL SIR HARTLEY THE COMMITTEE WILL MAKE ITS RECOMMENDATIONS TO HOME

FUCHS, A GERMAN NATIVE ONCE EMPLOYED AT THE HARWELL ATOMIC LABORATOR WAS SENTENCED TO 14 YEARS IMPRISONMENT IN MARCH FOR PASSING ATOMIC SECRETS TO RUSSIA.

12/20--JL146P

O AUG 14 19514

WASHINGTON CITY NEWS SERVICE

DATE:



FEDERAL BUREAU OF INVESTIGATION FOIPA DELETED PAGE INFORMATION SHEET

1	Page(s) withheld entirely at this location in the file. One or more of the following statements, where indicated, explain this deletion.
F	Deleted under exemption(s) (b)(1) with no segregable material available for release to you.
	Information pertained only to a third party with no reference to you or the subject of your request.
	Information pertained only to a third party. Your name is listed in the title only.
	Documents originated with another Government agency(ies). These documents were referred to that agency(ies) for review and direct response to you.
	Pages contain information furnished by another Government agency(ies). You will be advised by the FBI as to the releasability of this information following our consultation with the other agency(ies).
	Page(s) withheld for the following reason(s):
	For your information:
	The following number is to be used for reference regarding these pages: 65-58805-1517

XXXXXX XXXXXX XXXXXX American Rabassy 2 Avenue Gabriel Paris 8, France

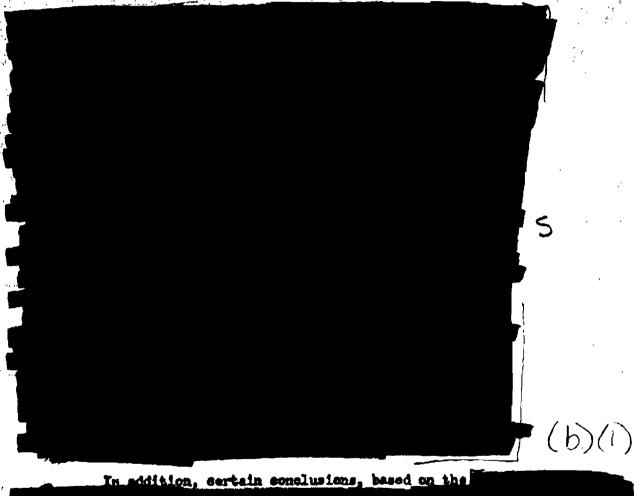
erchet - Air Courier Hovember 6, 1951 Director, FRI Legal Attache, Paris (65-85 ROTE KAPELIE CASE! Bubjects HICHARD SORGE CASE! Enul PUCHS CASE;
CORBY CASE; ESPICHALE - E Reference Paris letter dated October 12, 1951, entitled (b)(l) 5 (6)(1) \$ At was indicated in reference letter this (6)(1) (6)(1) 5 へのこ Classified by 235 65-58805-V Exempt from GOS, Category NOT RECORDED Date of Declassification Indelining L E. Carried 136 NOV 15 1951 ROLIAN



FEDERAL BUREAU OF INVESTIGATION FOIPA DELETED PAGE INFORMATION SHEET

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For your information:
The following number is to be used for reference regarding these pages: $\frac{65 - 58805 \text{ WR}}{1185}$

XXXXXX XXXXXX XXXXXX EL ROTE KAPELE; RICHARD BORGE; ROBERT CORDON SWITZ; FUCHS; COREY CASES
BEPLONAGE - R



(b)(1) 5 (b)(1)



Birector, FBI

REQ NOTE KAPELLE: MICHARD SCHOOL ROCKET CONDON SWITZ; FUCHS; CORET CASES

That might be of even greater significance to the Bureau is the (b)(1) (b)(1) It is requested, therefore, that (b)(n)

Enclosures (8)



SECRET

The fourth of the series of articles in the Fashington Times Revald newspaper concerning the theft of atomic secrets by the Soviets and written by Bob Considine of the International News Service, appeared on December 12, 1951. It made mention that subsequent to Fuche' return to England in 1942 from an internment camp in Canada, Joseph Goedbels reportedly furnished British security via Switzerland with a dossier on Fucha Communist activities in Germany but that this information was ignored as an effort to separate the Allies.

We nould appreciate having your conments in this regard. (DA)

30/12/19/51/51 cc - Legal Attache London, England SECRET AIR COURIER

cc - Foreign Service Desk

Classified by 3042 fu Declassily on:

Classified by 2355 Exempt from CDS, Category Date of Declarification Indefinite

AILED FROM DIVISION FIVE

DEC 18 1951 6 5 - 588 05 - 1572 ORDED - 24 1051 1051 1051 RECORDED - 24

63 JAN 14 1952



In Reply, Please Refer to File No.

UNITED STATES DEPARTMENT OF JUSTICE

FEDERAL BUREAU OF INVESTIGATION

Liaison Office, Ottawa, Canada January 22, 1952

Director, FBI

EMIL JULIUS KLAUS FUCHS, was. ESPIONAGE - R

Dear Sir:

Forwarded herewith is a hand-written letter dated January 13, 1952, signed Mrs. B. Cove Thuchs, 6751 Ingram St. Forest Hills, L.I." This letter was directed to the Canadian Navy, and also forwarded herewith is the envelope in which it was received and which was postmarked 4:30 P.M. January 14, 1952, New York, New York. The envelope was addressed to the Navy Intelligence Department, Ottawa, Canada.

The RCMP forwarded the enclosures without comment except to state that the letter would appear to constitute the ramblings of some person with a very imaginative or subnormal mind who alleges to be the wife of "Dr. Klause Emeel Thuchs."

This material is forwarded for record purposes and any action considered necessary.

Very truly yours,

INDEXED - 12

58805-1519

51 FEB 4 195

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FEDERAL BUREAU OF INVESTIGATION FOIPA DELETED PAGE INFORMATION SHEET

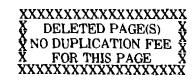
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	For your information:	
A	The following number is to be used for reference regarding these pages:	
ىئ	65-58805 - NR 2/7/52	

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	Pages contain information furnished by another Government agency(ies). You will be advised by the FBI as to the releasability of this information following our consultation with the other agency(ies).
2_	Page(s) withheld for the following reason(s): Disposition of document Gold 65-57449-812
	For your information:
	The following number is to be used for reference regarding these pages: 65-57449 - ## 1520





Office Memorandum - united states government

Director, FBI (65-58805)

New York (65-2513

EMIL JULIUS KLAUS FUCHS

ESPIONAGE - R

BERTHA RIBAKOVE, was: Ribakove Fuchs, Cove Fuchs, B. Cove, Bertha Cove

INFORMATION CONCERNING

ALL INFORMATION CONTAINED

DATE:

4/15/52

The following information is being furnished for the information of the Bureau.

On 4/10/52 Miss RUTH THOMPSON, Embassy Tours, 147 West 42nd Street, New York City, advised that RIBAKOVE FUCES had booked a tour for travel through England, Holland, Belgium, Switzerland, Italy and France, commencing 6/25/52. Miss THOMPSON stated that RIBAKOVE FUCHS would leave on the "Queen Mary" on this date and return on 8/26/52. According to Miss THOMPSON, RIBAKOVE FUCHS stated she was born in Russia and married to one "FUCHS", the atom spy. She stated that she corresponds with FUCHS and is going to Europe to help him escape. She further stated she wanted to get into Russia and said she had the necessary connections. She presented U. S. Passport #427856 and paid \$100 by a Manufacturers $oldsymbol{1}$ Trust Co. check signed B. COVE. During her conversation with Miss THOMPSON she at one time or another used all the aforementioned names.

A review of the files of the New York Office reflected that on 6/28/51Mr. ALBERT DAVIS, Davis Optical Company, 71 West 23rd Street, New York City, advised that he had been making eyeglasses for one Mrs. RIBAKOVE since 1936. On 6/27/51 she was in his office and in a discussion of the international situation mentioned that Dr. FUCHS, the atomic spy, was either her husband or a friend. As a result of this information, Mrs. BERTHA RIBAKOVE, 6751 Ingram Street, Forest Hills, New York, was contacted at her home by agents of the New York Office on 10/29/51. When advised that the inquiry was concerning Dr. KLAUS FUCHS, she stated that she could not talk to the agents inasmuch as Dr. FUCHS lived next door. She insisted that this Dr. FUCHS was the same British scientist who was convicted of espionage in Great Britain. It was the agents' opinion at that time that she was mentally unstable. It was also noted that the occupants of the house next door were Mr. and Mrs. PHILIP ROMANEK.

On 4/16/51, Mr. A. L. SIMMONS, of Simmons Tours, 1350 Broadway, New York City, advised that one Miss BERTHA COVE, 6751 Ingram Street, Forest Hills, New York, had spoken to him concerning a European tour and during this conversation had advised him she wanted to meet EMIL FUCHS on her tour.

It was the opinion of Miss RUTH THOMPSON and Mr. A. L. SIMMONS that 58805-1521

Mrs. BERTHA RIBAKOVE was a psychopath.

SE 39 PECOROTO EN 164

Letter to Director NY 65-15136

In view of the above information, the Bureau might consider advising CIA and/or the State Department in order to prevent any unnecessary investigation in the event that RERTHA RIBAKOVE discusses her alleged relationship with Dr. FUCHS while traveling abroad.

Mr. Bonald L. Michalson Chief, Division of Security Office of Security and Consular Affair Department of State Washington 25, 3. S.

John Rigar Hoover, Director Pederal Bureau of Investigation

BERTHA RUBAHOVE, she Mibakove Fuchs, Cove Fuchs B. Cove, Bertha Cove

MISCELLARGOUS IMPORMATION CONC

This Bureau has received information to the effect that captioned individual, who holds United States passport \$427856, has arranged to travel through England, Holland, Belgium, Switzerland, Italy, and France, sailing abourd the Queen Mary on June 25, 1952, and returning to the United States on August 25, 1952.

It has further been reported that this individual, who claims to have been born in Russia and also claims to be married to "Fuchs," the atom spy, has stated that she corresponds with Fuchs and is moing to Europe to bely him excaps. Allegedly, she further stated that she wanted to get into Bussia and that she had the necessary tonnections.

Information from another source has also been received to the effect that in discussing the above-mentioned tour of Europe, this individual stated that she wanted to meet Fuchs on her tour.

Both of the sources of the above information have expressed the epinion that this person is a psychopath.

Our files reflect that on October 29, 1951, Mrs. Bertha Ribekove, 6751 Ingrem Street, Forest Hills, New York, was interviewed by Agents of this Bureau in view of information received to the effect that she had stated that Br. Fuchs, the atom spy, was either her husband or a friend. At the time of this inquiry, Mrs. Mibakove edvised the Agents that she could not talk to them incomuch on Dr. Fuchs lived next door. She insisted that this Dr. Fuchs was the same British scientist who was convicted of espionage in prest Britain.

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SECURITY INFORMATION

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ALL INFORMATION CONTAINED

SECURITY TEPCEMATION - COMME

noted that the occupents of the house next door were not named. Fuchs.

The foregoing information is being made available to you with the thought that it may prevent unnecessary investigation in the event that Mrs. Ribakove discusses her alleged relationship with Fuchs while traveling abroad.

ec - Director Central Intelligence Agency \$430 H Street, Morthwest Washington, D. C.

BY SPECIAL MESSENGER

Attention: Mr. Lyman B. Kirkpetrick
Assistant Director for Special Operations



FEDERAL BUREAU OF INVESTIGATION FOIPA DELETED PAGE INFORMATION SHEET

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For your information:
The following number is to be used for reference regarding these pages: 65-58805-1522



 GC - Mr. Ledd
Mr. Belmont

15 - 58805 - 152 - 152 - 100 Mel by 3042 he famil 22, 1952

15 - 58805 - 152 - 152 - 100 Mel by 3042 he famil 22, 1952

Bet Borslar;

See Flabeth Grant

9140

South and Elsbeth Grant were the subjects of investigation by the Manhatte Engineer Ristrict (MED). This investigation indicated possible Generalist

Our memorandum dated March 12, 1951, mentions that in 1944, Motblat and Elebeth Grant were the subjects of investigation by the Manhattan Engineer Bistrict (MED). This investigation indicated possible Communist sympathy on the part of Botblat and Grant. When the information was received during the Eleus Fuchs investigation that he was in possession of the name of Botblat, this was connected with the result of the MED investigation. As Botblat was at Los Alexos during part of the time that Fuchs was there, Elebeth Grand, now Mrs. Bopst, was interviewed about the available information concerning Botblat and any possible connection he might have hed with Fuchs.

The information on which the interview with Mrs. Bopst was based is that developed during the NED investigation. Our information reflects that this data was made available to British authorities with the result that Botblat was transferred back to England and, accordingly, it was not furnished to you in our memorandum of March 12, 1951.

MED investigation was based on information that a young man of Polish descent who was employed at Ios Alamos, then known as Site I, visited Elsbeth Grant on June 22, 1944. Scant reportedly stated that this individual did not want it known that he was from the project as he was not supposed to make any contacts in Santa Fe. It was also indicated that Grant had openly stated in conversation that she was a Communist. The unknown Polish man was subsequently identified as Josef Botblet.

The investigation developed that Grant was the only daughter of Mr. and Mrs. Bouglas Grant. Ser father was an American born eitisen who serviced an English woman and resided in England until about 1942 when he returned to the United States with his family. The Grant family was said to be a wealthy banking family. Elsboth Grant was born in England in 1922 but became an American citizen when she reached the age of 21. Her mother was employed in 1944 in the Furchasing Department of the South African Legation, Washington, B.C. Elsboth Grant, Mai was Filmost totally deaf,

ec - Legal Attache EDCHET, AIR COURTER
LONDON, England Service LEGE
cc - FOREIGH SERVICE LEGE

SEE

APR 21 1952

Classified by 355 Category 2.

Date of Declassification Indefinite

lander text from a distribute

66 MAY 5 1952 357



had reportedly come to Santa Fe, New Mexico, in an attempt to improve her hearing. She was described by informants as somewhat unstable and very undeveloped emotionally for her age. She was also said to express Spenly? pro-Russian and Communistic views and to subscribe do and weed Communistic literature.

It was reported that Notblat and Grant had become acquainted while students at the University of Liverpool. Thile at Site I, Rotblat's wife was still in Poland, and he is said to have told Risbeth Grant that he intended to return to Poland at the sarliest possible moment; that he disliked Site I and had requested a transfer to Galifernia which was refused because he knew too much about the project; and that he intended in the near future to sak for his release so that he could return to Poland. In the meantime, it was stated, Sothist visited Grant every Sunday for several menths discussing Communica and exchanging Communicat literature with her, thus dausing her to become more enthusiastic about Communica.

Information was obtained by MED from a confidential informant to the effect that on December 3, 1944, Grant had spent the entire day with Sotblat during which time both had drank intexicants with the result that Grant became intexicated. In this condition, according to the informant, Grant expressed love for Notblat and was anxious as to what she would do in the event she had a child by him. On this occasion Grant teld the following story of Notblat's plane:

He intended to leave Los Alamos either on December 7 or 8, 1944, for Washington, D.C., and New York. He requested Grant to prepare a list of all people she knew in Liverpool and London and he specifically asked for a letter of introduction to one of her friends, Lewrence Milligan, who was Secretary to the British Minister of Labor, Bovan. Botblat's avoved plan was to sail from New York City December 15, 1944, to return to England where he intended to subsequently join the RAF and watch for an opportunity to go on a mission ever either Palani or Russia. Once ever either of these countries he intended to perschute out of the plane. He claimed that in either of these countries he could at suce contact persons the could introduce him to people interested in the Communist cause. He said his purpose was to go to the Ensure and tell him all be knew about the formula and work at Los Algaes, and he bearted that while the heads of the project did not think he know as much as he did he had obtained a great deal of knowledge of the work both at Los Alemos and other places in the United States. Botblat stated that he would save the world from gnother war by giving Russia all possible aid in mestering the desired weapon as he believed that if the United States mastered the problem first it would become superior to Russia in etrength and probably go to war with Bussia. Grant also said that the source of Botblat's unhappiness at Los Alemos was his sometant averences that "they" did not trust Ensain and were plotting against Eussia. She also said that Botblat claimed





to have a brother in the Bussian Army.

In connection with the above information it was pointed out that at the time Grant was intexticated and was also probably emotionally distraught by the fact that her lever, by whom she evidently had reason be suspect that she might have an illegitimate child, was shortly to leave her. It was also pointed out that, by Grant's story, Rotblat had also been drinking heavily while he revealed his "plane" to her.

Investigation also developed that on or about December, 1944, Grant received a latter from Estblat advising that he was leaving Banta Departmently on that date and instructing her to burn the letter and any other correspondence or books she had received from him. He said he was in serious trouble and feared that she would be involved if she did not follow his instructions carefully. The letter is further said to have warned Grant not to admit that she had known Motblat, to dany knowledge of the existence of the project and to refrain from further correspondence with him.

Our files have again been reviewed concerning Betblat and there appears to be no additional derogatory information available subsequent to our memorandum of March 12, 1951.

Office Memorandum • UNITED STATES GOVERNMENT

L. B. NICHOLS TO

Attachment

DATB: 4-28-52

FROM :

R. T. HARBO

SUBJECT:

FOOCASE

ESPIONAGE - R

65-58805

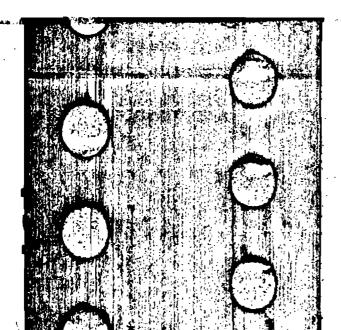
Top Sicret MATERIAL ATTACHED

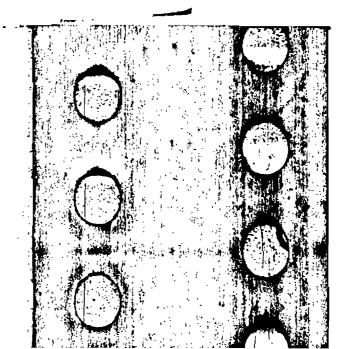
There is attached the file which has been maintained in the Laboratory in connection with the above captioned matter. It is desired that this file be maintained as an enclosure behind the main file in the Records Section.

INCLOSED BEHIND FILE

NOT RECORDED

31 'APP 30 1952







FEDERAL BUREAU OF INVESTIGATION WASHINGTON D. C.

36, 1980 - Property

a Bad. Thiledelphia

there fellows the report of the TBI Laboratory on the examis ation of evidence received from your office with two separate letters on my 23, 1950, and evidence submitted by the Fow Fork office with a letter

ARRAMAN RECTINAL ESPICEAGE -

John Edgar Hoover, Director

YOUR FILE NO.

FBI FILE NO.

LAB. NO.

D-116939 12

D-116940 II

Examination requested:

hiladelphia and new York

Letters dated May 20, 1950, and May 10, 1960.

respectively.

Document

Classified by 3042 Jut- Ptc Declassify on: , OADR

Specimens:

Bubmitted by Philadelphia with letter dated May 20, 1950;

12 Pive-page typewritten document, tegether with a cover sheet. entitled "THERMAL DIFFUSION - A PROSPROTUS."

D-116940 TE

Submitted by Philadelphia with letter dated May 20, 1950:

The state of the s

E2 Bight shoots of paper, bearing known handwriting and handprinting of HAPPY SOLD.

Submitted by New York with letter dated May 10, 1960;

401 Photographic copy of a mine-page typewritten article o THEREAL DIFFUSION containing a statch and some handprinting

ire - Registered Special Delivery

3- New York - Muclesure - Special Belivery

1- Vashington Field

1- Albaquerque - Air Mail

PAGE BAG

timed on next page

HLD:AB

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PROULTS OF BEAMINATION

It has been concluded that the handprinting appearing on page 5 of 401 was prepared by MARRY SOLD, X2.

It was also concluded that the typevriting on the eriginal document represented by QCI was prepared on the same typevriter as that used to prepare the typevriting on specimen XI. The original document represented by QCI is not a sarbon copy, however, of XI.

Due to the lack of sufficient sharpness of detail in QCI, it is not believed that satisfactory enlargements can be made of this specimen for presentation in court testimeny. If court testimeny is contemplated in this case, it is suggested that the original negatives from which QCI was made be submitted to the Laboratory. The original specimen should, of course, he submitted if it becomes available.

As soon as the Milton Motel registration card is received it will be compared with the handwriting of MARRY COLD.

The eriginal evidence, Kl, is returned herewith to your office. Photographic copies of this opecimen are attached for your office and also for the New York office. Specimens 681 and K2 are retained in the Eurem's file.

3-116940 EE

BUREAU OF INVESTIGATION UNITED STATES DEPARTMENT OF JUSTICE

Laboratory Work Sheet

Re: FOOCASE ISMONATE - R File # **55-58805** Lab. # D-112995

Lab. File opened

Examination requested by: Examination

Date of reference communication: Memo dated 3-77-50

Date Received: 2-23-50

Examination requested: Document

Result of Examination:

Examination by: Bhigren

Maryo Bostor 3/1/50/4 ALL INFORMATION CONTAINED

Specimens submitted for examination

Mi letter to Kristel Heinman, handprinted in Ink, from MXSTANTIN LAPAZANOS, reverse side bearing reply handprinted in pencil, dated January, 1950: also an envelope addressed to Hr. WHSTARTIN LAPAZANOS, from Mrs. I. FUCHS THEYAY.

IS white envelope and accompanying latter, dated January, 1950, bearing bendprinting in penall, anvelope addressed to Fraf. Dr. Enil Paths, from MISTEL TEDENAL.

26 Typowritton letter dated Jermany 10, 1950, to Mro. Exists: FUCHS-HEINCHAS, brom BCLL FECRS.

By Typewritten letter deted Jamesy 16, 1950, to Mrs. BRISTEL FUCKS-HEISEMAN, from EXIL FUCES.

26 Envelope and accompanying two-page typewritten letter dated August 15, 1941, to Mrs. E. HEINEMAN, from MIAUS FUCHS.

Manderitten letter dated December 15, 1944, to Mrs. MISTEL HETHERAN, from MLAUS MICHA

REPORT of the

LABORATORY

FEDERAL BUREAU OF INVESTIGATION
WASHINGTON D. C. 2950

To Mile Booken

There Police the separt of the FRI industry on the empireties of the FRI industry on the empireties of a serious of the first on the separt of Special Agent Systems S. Derden, dated Rebrusy S. 1950, under the caption, "ELMA ANNA DOROTHE IDA CHRISTEL HEINEMAN, was; ROBERT BLOCH HEINEMAN, was; ESPIONAGE (R)

R. FOOCASE REFIGNACE - R Classified by 3042 fut Add Declassify on: OADR

John Edgar Hoover, Director

11

YOUR FILE NO. 5 18205
FBI TILE NO. D-112995

Examination requested by:

Reference:

Memorandus dated February 27, 1950

Examination requested: Doctiment

Speciment

III, Letter to Bristel Helmann, handprinted in ink, from MONSTATING LAPAZANCE, weveres side bearing weply handprinted in panell, dated danuary, 1950; also an envelope addressed to Mr. RONTANTIN LAPAZANCE, from Mrs. I. FUCES HEIMERGE.

Note envelope and accompanying letter, dated January, 1950, bearing bendurinting in percil, envelope addressed to Prof. Dr. Red Justic, from ERISTEL MEDICAL.

M Typercritten letter dated January 10, 1950, to Mrs. MESTEL FUCKS-

MEDICAL, from EMIL FOCES.

Typowithm letter dated denutry 18, 1950, to Mrs. Mistri Foces.

MEDERAL, from MILL PURS.

Merelope and accompanying two-page type-mitten letter dated August 18,

1941, to Mrs. K. METHERAN, from KLAUS PUCES.

Henderitten letter dated December 15, 1944, to Mrs. KRISTEL HETERAL,

AND MAIS WORK,

Bearitte of Reselvations

The handprinting on M4 and M3, the typeseiting on M5 through M8, and the handwriting on M9 were compared with the appropriate sections of the Matienal Security File without effecting an identification. Appropriate photographic copies of this material will be added to this file for future reference and comparison.

Enclosure - REGISTERED WATL

3.14.5

Continued on next page

Page Che

Listed above to M. through 19 are attached for the of the New York and Boston Offices.

hered the the Boston Office. Pactographic scales are retained for the completion of the Boston's files.

RECORDED 3-2-50 jl

FEDERAL BUREAU OF INVESTIGATION UNITED STATES DEPARTMENT OF JUSTICE

Laboratory Work Sheet

N 3/6

Re: FOOCASE

ESPIONAGE - R

File # 65-58805

Lab. # D-112995 HE

. . .

.

THE INTERNATION CONTAINED

DATE 3/5/87 BY 3042 July 91

LAB. FILE OPENED

Examination requested by: Bureau

Date of reference communication: Nemo dated 2-27-50 Date Received: 2-28-50

Examination requested: Document

Result of Examination:

Examination by: Dahlgren

L.C. Smith 996 which has some style type form Tion. Searched in both sections NSF. -mo ident. Tw. MB is ident with Imperial Pice (British mak) - no ident in N.ST.

MY + K5 searched in NSF. LCHB - no ident.

Specimens submitted for examination.

K9 (For.C) no Specimens submitted for examination,

- K4. Letter to Kristel Heineman, handprinted in ink, from KONSTANTIN LAFAZANOS, reverse side bearing reply handprinted in pencil, dated January, 1950; also an envelope addressed to Mr. KONSTANTIN LAFAZANOS, from Mrs. K. FUCHS HEINEMAN.
- K5 White envelope and accompanying letter, dated January, 1950, bearing handprinting in pencil, envelope addressed to Prof. Dr. Emil Fuchs, from KRISTEL HEINEMAN.
- K6 Typewritten letter dated January 10, 1950, to Mrs. KRISTEL FUCHS-HEINEMAN, from EMIL FUCHS.
- K7 Typewritten letter dated January 18, 1950, to Mrs. KRISTEL FUCHS-HEINEMAN, from EMIL FUCHS.
- KE Envelope and accompanying two-page typewritten letter dated August 18, 1941, to Mrs. K. HEINEMAN, from KLAUS FUCHS.
- K9 Handwritten letter dated December 15, 1944, to Mrs. KRISTEL HEINEMAN, from KLAUS FUCHS.

CC- New York Boston Report 3.7-50 HLD: gl Mr. FLETCHER

February 27, 1950

Mr. Whitson

POOCASE ESPIONACE - R

ALL INFORMATION CONTAINED

TEREIR IS UNCLASSIFIED

To have specimens of handwriting of individuals involved in this case searched through the National Security File of the Bureau.

The Boston Office, by report of Special Agent Brenton S. Gordon, dated February 9, 1950, has furnished to the Bureau letters written by various individuals involved in this investigation. These letters are as follows: THE PERSON OF THE PROPERTY OF

- 1. Letter from Konstantin Lafazanos to Kristel Heineman, with her reply on the reverse side, dated January 19, 1950.
- Letter from Kristel Heineman to her father, Emil Fuchs, dated January, 1950, in Germany.
- Two letters from Emil Fuchs to his daughter, Kristel Heineman, dated January 10, 1950, and January 18, 1950. These are written from the Soviet Zone of Germany.
- Two letters contained in one envelope from Klaus Fuchs to Kristel Heineman. The first, dated August 18, 1941, is typewritten and has been consored. The second is handwritten and is dated December 15, 1964. 🦫 🛒

The foregoing letters are examples of the handwriting, handprinting, and typewriting specimens of the persons named. The first three items named above were obtained through Dr. Rollins K. Hadley, Westboro State Hospital, Westboro. Massachusetts. They are to be returned to Boston whey they have served their purpose in order that they may be in turn furnished to Dr. Hadley for his files. The fourth item above was obtained from Robert Heineman, the subject's brother-in-law, and should also be returned to Boston for the completion of his files. The results of the examination should be furnished to New York and Boston.

05-58805 K4-9 0-112995 K4-9 3/2/50jl

RAC:hc ·

65-58805

It is also requested in view of the fact that these original letters are being returned to the Boston Office that six photographs be made of the letters and their envelopes; two photographs should be furnished to the Boston Office and two to liew York with the results of the Laboratory examination; two photographs should be furnished to the Espionage Section for the completion of this file.

ACTION

It is recommended that approval for this examination be granted, and that it be completed as soon as possible.

Lirector, YSI

BAC. Boston

AND TOROTHE TO CIRIETIA HETHINAR

ROBERT BLOCK WEIGHAN

ME:10数证据(1)

Chasified by 3042 Declassify Jon:

Reference is unde to the employed payort of Special Agent Breaton & Cardot at Mostra in the instant case dated Followry 9, 1960,

The Surem's attention is directed to the fact that this report has not been propared for disconination. Offices receiving orgins are requested not to disensizate information contained herein without prior epproval of the Durones.

The Bureau is further advised that lettle have been text out by air sail letter to See York, howerk and Albany to accortain the identity of talephone subscribers known to have been the recipients of long distance calls from the leinson residence in the past six mention. Information as ruce ved from thems divisions will be incorporated in the next re-ort emanating from BOSTURE

The Firem Is Turther advised that the enclosed report his been prepared as a severable reports i.e., sections indicated on the Table of Combents pegs can be removed from the report without messessarily effecting its emtimity, or rendering a reging of a particular section unintelligible.

For the convenience of the Bureau and effices receiving copies of this report, there are not forth below the titles, Bureau file members and Deston file suchers together with at least one other reference of the persons mentioned in the report known to have been essociated with ROSENT RECEINED. and, therefore, possibly in association with MIANS FURB and WHITTH WITH MIR.

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Report & John S. Paridoon, Roston, 10/11 Bostile 100-19068 out le

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The rock maint valifier. Jr. Burilo 100-72929 Security limiter (C)

Bosfile lib-3486 Report James A. Brenden, New Haven.

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Report of SA B. S. Gordon, 13/8/40

MARINE LEW SALES

Defile 2:0-547949 Desile 100-1510

Papart of EA F. M. Connors, 20/20/48

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Buttle 100-864786 Bostile 100-17062

MARY J. CAPTRY Security matter I Report of St. James 7. Hoham at Beston, 11/50 44

ATCISANT LOW SPRALL

Report of SA S. L. Gerdon, Boston, S/14/49 Bufile 100-358819

Bostile luu-12948

MEELE PARTIES

Burile 100-345482

Foufile 1.0-17798 Legart of SA F. H. Comors.

box tox., 12/9/46

Since the emplosed report represents investigation in the FULE case, the MAXIMAN case and the property case, all times files are being posted HATTIME at Destine.

BCO radi

00: 05-5519 05-5520

Vachington Fan Prezeisen



Office Memorandum • united states government

TO : D . M . LADD

DATE: June 2, 1952

FROM : A. H. BELMONA

SUBJECT "THE TRAITORS,"

BOOK BY ALAN HOOREHEAD,

BRITISH AUTHOR

BRITISH AUTHOR ESPIONAGE - R

CERCLASS

PURPOSE:

AND THE STATE OF CONTAINED

ONE 3/ 5/82 BY 3042 Just = 0/10

To inform that an advanced copy of captioned book, confidentially furnished by the Legal Attache, London, has been reviewed and found to contain no critical statements about the FBI.

DETAILS:

Attached letter dated April 28, 1952, from the Legal Attache, London, enclosed undeveloped negatives of an advanced copy of captioned book, which had been reviewed by the Legal Attache and described generally as an attempt to whitewash the previous Labor Government and the British Security Services in connection with their investigation of the cases involving Klaus Fuchs, Allan Nunn May and Bruno Pontecorvo.

The Legal Attache requested that the possession of this advanced copy by the Bureau, received by him from Rebecca West, English authoress, be kept strictly confidential.

Attached also is the "Saturday Evening Post" for May 24, 1952, which features an article entitled, "Traitor Klaus Fuchs: He Gave Stalin The A-Bomb," by Alan Moorehead. This is stated to be the first of a series of four articles to appear in the "Saturday Evening Post." A review of this article reflects that it is based on captioned book.

Prints of the negatives submitted, which are attached, reflect this book of 222 pages (pages 36 and 37 missing) is divided into 14 chapters as follows:

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Chapters 1-3 (Pages 5-47) concern May
Chapters 4-11 (Pages 48-169) concern Fuchs
Chapters 12-13 (Pages 170-200) concern Pontecorvo
Chapter 14 (Pages 2017222) contains the author's
conclusions. RECORDED: 15 65-58805-1524

EJVL:mem 65-58805 Attachments

EX-25

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The chapters concerning May were reviewed by SA J. E. Vallace, and the chapters concerning Pontecorvo were reviewed by SA K. V. Dissly. The balance of the book was reviewed by SA E. J. Van Loon. No criticism of the FBI was noted.

Briefly, the book takes up each of the three above-mentioned cases in a well-written and interesting manner. A rather detailed characterization and background sketch of each subject is included along with considerable theorizing as to what factors might have led to or might explain the actions of these men. Insofar as the facts of the cases are concerned, the book was found to maintain a very high degree of accuracy.

The major portion of the book concerns Klaus Fuchs. As mention is made of various abilities and traits of Fuchs in a favorable tone, the book may be said, broadly speaking, to treat Fuchs in a somewhat sympathetic vein; however, there is no question that the author does not condone the actions of Fuchs. At the end of the book he states Fuchs was basically a man who would always refer to his own conscience first and society afterwards, that there is no place for such men in an ordered community, and that they belong where Fuchs now is, in Stafford Gaol.

On several occasions throughout, reference is made to the fact that in 1934 the German Consul in Bristol, England, had advised the Chief Constable of the city that Fuchs was a Communist in Kiel, Germany. Briefly, this is disposed of on the grounds that it was not illegal in England to be a Communist, that the source was considered a tainted one, that in 1941, when Fuchs was considered for work on atomic research, this source was no longer available for rechecking and that in the interim, while Fuchs held leftwing views among his friends, he never joined the British Communist Party or committed an act which indicated his allegiance to Communism.

A statement is made that after Fuchs arrived in the United States, having been cleared by the British, there was no further investigation into Fuchs' credentials and in the ensuing two and one-half years, no other check was made upon him. On this point, the author argues in the last chapter, which is devoted to support of the British security practices, that the doctrine that a man who is once a Communist is

always a Communist is fallacious, that a man's politics change through the years and that there was every evidence before the authorities that Fuchs had changed from a German refugee to a loyal British subject. It is stated that therefore the authorities had no right to refuse Fuchs employment in 1941 on the grounds that he had been a Communist eight years before, "even if they had known this." It is further stated that in the absence of any further evidence against him the authorities had every right to clear him to the Americans in 1943, and to admit him to Harwell in 1946.

It is pointed out in this connection that Fuchs was never accepted on trust at any stage of his progress. It is said that he was the subject of a police investigation into his record when he was first employed on atomic research in 1941; that there was a second investigation a year later when he was naturalized; that he was investigated a third time when he was sent to the United States in 1943, and a fourth time when he returned to England in 1946 to enter Harwell. Elsewhere, it is pointed out that this latter investigation, which lasted five months, unfortunately consided with a period during which Fuchs was inactive in Soviet espionage.

The fact that Fuchs was seeing Russian agents during all of this time is noted and the question of why British Security failed to observe Fuchs in these meetings is raised. It is answered by adding up Fuchs' meetings with Soviet agents to a total of some thirty in number and showing that over the seven year period they averaged approximately 4 meetings per year, and were nearly all at different places and of short duration, perhaps 15 minutes or less. It is then stated "It seems a little much to expect of Security that they should have been on guard for four odd quarters of an hour in a man's goings and comings over twelve months. Unless they had reason to suspect a man such surveillance of the atomic scientists is manifestly absurd - it would require a vast army."

Regarding the suggestion, said to be prevalent everywhere that Fuchs would have been caught if only American Security had not accepted the British clearance but applied their own particular methods to him, it is stated that American Security methods have failed as the British have. It is said there were other secret Communists besides Fuchs inside Los Alamos and they were

American citizens who passed American clearance tests, and that no loyalty test is going to trip up that kind of traitor. In the next paragraph it is pointed out that it is an entirely profitless business to go matching American Greenglasses and Golds against British Nunn Mays and Fuchses. It will be noted with respect to this that it was the Manhattan Engineer District that was the American Security Agency which accepted the British clearance of Fuchs. In addition to Greenglass, the author possibly has in mind the publicity occurring from time to time concerning other individuals engaged in atomic research such as Martin David Kamen, Frank Oppenheimer, and Joseph Woodrow Weinberg, though Oppenheimer is the only one of these three who was at Los Alamos. The activities of these individuals relate to the period of the MED's responsibility.

The high degree of factual accuracy and the defense of British Security would seem to suggest an influence of MI-5 in the preparation of this book.

RECOMMENDATION:

None. This is for your information.



Led States Bepartment of Applica

Birderal Bureau of Investigation

American Embassy 1, Grosvenor Square, London, W. 1

Date:

April 28, 1952

To:

Director, FBI

From:

Legal Attache, London - (65-721)

Subject: FOOCASE

There are attached ten film packs containing undeveloped negatives of an advance copy of the book entitled 6 "THE TRAITORS", by Alan Moorehead, which was confidentially made available to writer by Rebecca West, the English authoress.

In making this advance copy available to writer, Miss West commented that the book, according to her sources, is a personal attack against her as a result of several articles she wrote regarding the FOOCASE in which she criticised the British Government and the Security Services. She also complained that Moorehead had access to confidential documents in connection with the Alan Nun Way Case, the Foocase and the Pontecorvo Case. to the exclusion of other British newspapermen and writers. According to her source, Moorehead was commissioned to write this book by Clement atlee, former Frime Minister, and officials of the Ministry of Supply with the understanding that he attack Miss West.

This book has been reviewed by writer and it appears that the attack on Miss West is of a very mild nature. Generally, it can be described as an attempt to white-wash the previous Labour Government and also the British Security Services in connection with their investigation of these cases.

It is requested that the possession of this advance copy by the Bureau be kept strictly confidential.

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By the same Author

AFRICAN TRILOGY

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THE VILLA DIAMA

ME RACE OF THE VULTURE (A NAME)

TRAITORS

The Double Life of Fuchs, Pontecorvo, and Nunn May

BY

ALAN MOOREHEAD



HAMISH HAMILTON LONDON

The publish of Charles and Spirits and Spi

SECTION STATES

TO THE SHAPE AND THE

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ALAN MOORFHEKO

AMERICAL CR

PRINTED IN SERVICE TANKS OF SERVICE STATES OF WESTERN PROPERTY OF SERVICE STATES OF

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This hoppened con rather it began to happened Queens on the growing of Separather oth in 1945. On the growing a young ciphes clerk in the Russian Embassy named ligger Gomento went to the stool rate in his office and sook out a number of official documents for Colonel Zahosin, the Military Attaché as they passed between the Embassy and Moscow, and for some time past he had been musing down the corners of those which seemed so be of special interes.

Gottenko, then aged swenty-six, was of the generation which has been born and brought up in Sovier. Hussis, and he had been just two years in Capada. But in shore two years he had marvelled at the goods that were sold in the thops, at the freedom and friendliness with which the Catadians want about their daily lives, and he had grown to detest the way in which these people were being cheated and spied on when their only desire had been to help Russis in the warning of the was due to resear to Russis he had decided to just and he was due to resear to Russis he had decided to just

all his past life behind him and cross over to the Canadian

The story of Gouzenko's defection is well known through the published report of the Canadian Royal Commission which inquired into the matter in the following year; but it is worth separting here because of the peculiar atmosphere is evoked and because it reveals by how much the democracies were

CONTRACTOR

is was eight o clock when he left the Embassy in Charlotte Most charge the document in his told pocker, and he War he with to the tellion of the Outsur Highell but the title The har the name best understandable ides that if he toold ge Mildochilens published there and then he would have marie the dimecalcles and the phipose would have been accom-Maked to war hot Boweyer, as they weeker. Newspapers have settled practices of their own; crimes, politics, and baseball come to each the of all capitatied flythin and there be distinguity the place the this tolding for and consider foreigned Miles Charles to make a pour blank imposes to Street Contin Contact to brief for an hour but brief the The to take their sectionary the their retirement to the lighter 117 Summer Street, where he was living to an approprie The Section Bostows and their chief his who had been born stace their arrived in Canada May Mint lo The near day, September oth he toled seain. The let but

with his family and his wife carried the documents. It is sixteened bundle of pick, thus, and white allow of people is his handbag. He returned first to the Catawar faminal and which they advised him in go to the police he visited various Government offices in the risy with no better result. Mt. Ministration with indeed hear of this old various king, the Prima Ministrational and indeed hear of this old various line at he was about to go know to opening session of the Catachan Parliament. But it is not a Prima Ministration beautiful.

hed the staff executed Community reduct book to the Resting Restaur; if the endered was art phonography process the characteristics of several states in section of the secti purner of what he had done Soon after he was to my two men standing on the opposite side of the street standard ing his anotherist suchistic was blorger Presently dientisted as brack at his does and he head substrate tall lineaunc the recoming the policy of Hadra Librarian Layronian obe of Golonel Televisit driver from the Carbony Grande and his wife atmained units will but the ability made and the assent making in class charge wanted haunt with a style I would not Il Gouzenko ishen were see to as the helomy at the back of her appropriately and collect to his pelighbours to bla. You Canadiani Air Porce sergests and his wife! He saled if them two would take term of the child that might be have anything should hapnew to himself and his wife. The Canadian sook him indoors and Committee then explained that he believed that he was in doing then the Russian mighenty to kill him and his wife dating this might real but presented bear up from the

in the audide world of the seal difference between the society has repeated and the state the was about to enter. In the intervening years more than two days grown used to the idea that the citinates of a police State win he killed wherever help maps be in the more maintenance with may, and in the more promise suggested by the state was not clear. To most people, the significant immediately be the lateral was income in the Runis had already aquadragism by allies the war had ended andy a few weeks before or the place of the place of the state of

Homework in the agreed dies the shild should be let with the with the bear the Carachan

they have been wishing along a lane as the track of the building. Governke was now thereighly along the track of the building. Governke was now thereighly alonted and he asked if the whole family could take refuge with the Government. At this point the woman who lived in apartment Mer. 6 appeared and since the woman who lived in apartment Mer. 6 appeared and since the woman who lived in apartment Mer. 6 appeared while the Air Point streams went off for the police and his buildings and his land, your way was

While the Councekos were moving theo blow to the bonn wither Walsh and McCulloch, arrived in a prowler car. They board the story and agreed to keep watch on the building through the night; who hathroom light in Non distrat to be home on and in the event of an emergency it was to be turned our. Nothing happened for the next three or four house, Then, shortly thefore midnight | four Runians arrived and began knocking on the door of Gouzenko's apertment, Nova, The Air Force sergeant in No. 5, thinking it was the police, opened his door and when the four men asked if he knew where Gomenko was he said he did not know. Destrict this the meni keps knocking on Gomenkols door for a time. Then as het, they went away and the Air Posts sergens returned to his anartment. The four men, however, did not leave the building ing. They returned quietly, knocked again of No. 4, and then hooks open the door and week imides do blind which have not co-

Memorphic Walsh and McCulloch in the street outside had got their signal. They come into the apartment and found that it was being ransached. One man, Vitali Paulou, a second secretary and consul of the Russian Embassy and the head of the Russian Secret Service in Canada, was going shrough a clother cupboard. Another man, wearing uniform Lieutenant-Colonnia Rogov, as assistant to Zahotin, was searching another cups heats in a room near the broken front door. The other two num were Lieutenaux Angelov, also on Zahotin's staff, and Alexandre facafontov, a cipher clerk from the Embassy.

All these events are soberly reported in the report of the

Cariadism Royal Constraints, and the following secures of whist their actional felicities from appealing of their secures (19) and that represent the ment were doing there. Region, articles, procincilly all the talking, said they were Austrance and for procincilly all the talking, said they were Austrance and for the process of the approximant had left above and would be appeared that they wanted the permission to go upo the appeared that fill that they wanted Webbi institutes the land to go a forward that fill their they wanted Webbi institutes the land to go a forward that fill their they wanted their the transmitted that they had been about the land to go and their fill that they are been all their the transmitted to be the following the land they follow the transmitted that they had been designed to be the following the following the mean and the process of the following the following the fill they are followed to be the following the f

the other words they words Canadioust this police State where official violence is accounted and anguestioned. Zaborin and the scaff had blumbered dreadfully on two counts. They had inted firever do something which was also giving to haram the environments of all democration as a confequence of this night, and the war to known to the logalty of one of their employers to less what was happening inside his mind and make provision for it. They had blundened on the second count in marching so hald-handedly upon their victim; in hence so concemptuous of the visilance of a democratic society that they took no real precautions to benderink the police: Gourenke was simply one of their own a delinquent and they had come to claim him. No doube these had been construction about Gousenko inside the Russian Embatry that day, and their need to eateh him was urgent; but same with price move their position became wome.

dian Department of External Affairs a day or 1910 later, that dian Department of External Affairs a day or 1910 later, that Gouzenko had decamped with Embassy money, that the contrables had been mide and that Gouzenko should be arrested as a criminal and handed back to them. The cat was out of the bag and no one there that make could see where this incident mould one.

The impector arrayed The Russians were allowed to depart.
The impector arrayed The Russians were allowed to depart.
Consents, his wife, and child apent the rost of the night in No. 6 under the care of the police. Early in the merning the Russians made one more attempt, so enter apartment. No. 14.

Russians made one more attempt, so enter apartment. No. 14.

Russians made one more attempt, so enter apartment. No. 14.

In the morning, September 7th, Gouzenko was taken with his documents to the officer of the Royal Canadian Mounted Police. And now that he had emblished his good faith by an appreciated coup de the fire society was ready to listen to him and take him and his family into percentive custody.

But even the following year, in 1946, when the Royal Commission had published its findings and revealed how isplacable was the Russian apposition to the West, and home deep and far its spy networks credd go, it is doubtful if many people realized the full implications of what was happening. Such names as Alger him were still and now, and it had not yet become clear that we was small and now, and it had not some realizing ethics, where black could be made into white where a man could considerably say one thing and mean another, and where all the old-fashional hapshin could be made into white.

The Canadian app. sing. manufall fay as spy rings go and (selfiz has developed from laser ordenes) it had been hasply puttogesher. It only southed the fringe of a south larger interesnational organization. But its discounty did many a remarkable, that of events, because for the first time it beingth out intothe open the frightening substanting beauties the same interestable. must characteristics, blement the content and the atomic bounts. Become next on like the employee fines of the bounts excell this power of the trainer was enormously magnified, magnified the Pagesian proportions beyond take placedimentaring which this enight these dramed of in his busher in Riedin. The trainer this necessary did not trained the magnified the trainer than they did not believe themselves did not acceptable after their way. They did not believe themselves to be unacchied. Many of their acted this what they believed to be the miner homestrable of manufactions which where they believed to be the miner homestrable of manufactions with their policies and the result was accompling which where their policies and the result was accompling which the physicies intights will be abled to the result was accompling which their policies intights will be settled to the content of the best policies and the result was accompling which their physicies intights will be settled to the content of the physicies intights will be settled.

But in 1945 when the was was just used and survived deall thereboused will a long way as go helder used printipulate of land tion was paid to show things had harrison attention of land and yet to be incertised in their shells mouth Separather to be wasted out of she Russian Harbary in Oktown. Dr. Klims Pucket out of she Russian Harbary in Oktown. Dr. Klims Pucket out of she actual borne invest the mouth dependent Last Alaman up them. He said harded over north dependent against the density of the actual borne invest. Post improve plant were so pass before he was discovered. In this improve plant were a primiting young finding scientist named. Dri Brune Postscores two weeking as the very centre of British attentive encards at Challe River in Canada, and five years two to go by almost to the very day, before he and his family transition without a truck father the Western world see Helpinks in Fighand 200.

tale Plane was a shired mann Dec Allem blungs have, who are this manne might of Supersolate and had jour recent back from a vest to think there to hid flames in Manneal the was packing up his account to Regiond the following wouth Neither he not without of the others below sayshing about Committo's excape without of the others below sayshing about Committo's excape. They had nove were been both blines by Pounchio's evidence they had nove with the belowed to see a going to affect and the trivening element which followed to see a going to affect and the trivening element which followed to see a going to affect and the below of the seed and the form

these men the trail was going to lead on to the Americans, Harry Gold, David Greenglass, Julius and Ethel Rosenberg, and many others.

Allan Nunn May stood in the most immediate danger. His name under the code word 'Alek' was actually mentioned in the correspondence Gouzenko brought out of the Russian Embassy. Dr. May crossed the Atlantic still unaware of the fate that was banging over him and he settled down with every outward appearance of a placid academic existence as a leoturer in physics at King's College, London. It was there in the following March that a detective-inspector from Scotland Yard met Dr. May as he was coming from one of his lectures and told him he was under arrest.

he some ways Num May's case is a prototype for all the west. He was not only the first of the major atomic spies to be discovered; he also revealed the pattern by which nearly all she others can be recognized. He revealed, in fact, that we were dealing with an entirely new sort of traitor; a man who gave Away stores not for money or for power or through fear or hatted or the perverse attraction of the act of spying, or even hasically because he believed in a political faith. He betrayed because he found himself in posterion of information of the remost value and with an Olympian confidence decided that he should pess it on for the good of mankind. He did this although of his own free will be had taken an oath that he would never do it. This was something new in the world, a thousand miles away from the conceptions of desting-do ambdonial again and glossation from pulas an Shakespeate's lago there that no real precedent to explain it. Beyond this this moral quaters do their trosposi which is always soungwhere, present in a more or loss degree - it would he foolish to lay down rules about the attent spice. They all led a double life, but there is posting personiesly new in that success that they carried it at fax and so successfully. For the vest the three, pure being discussed in this back. Notice Mare Puchs, and Pontecorvo, differed secremely in their hebits, their backgrounds, and their private domestic lives.

"Nationality has nothing much so do with the matter. Numn May was born in England, Puchs in Germany, and Pontecorvo in Italy. The actual dates of their births may, however, be important, for they were all born a year or two of one another at the end of the first docade of this century and did their spying in their early thirties; and so they came under the influence of the same succession of political events at a special and chaotic moment of European history.

On the other hand, a study of moes and religious does not get you very far in making rules about traitors, for Pontecorvo was a Jew while the other two came from Christian families, and none of them were very religious men. There is nothing perverse in their private lives: they were neither drunkards, drug-takers, nor-pederasts, nor were they mad. Nunn May and Fuchs happen to be backelors and are of a retiring disposition, while Pontecorvo was married with three children and by nature an extrovert. It is true they were all unusually gifted and highly educated men—perhaps too highly in the one direction of physics, for there is not much evidence that they took any lively interest in the humanities. They had no time.

Even in the best of circumstances they would probably never have become friends and in fact, though they met for short periods in different places, they harely knew one another. Almost cortainly none of them knew that the others were working for the Russians until the arrosts were made; Fuchs indeed discound the May case among his friends—just as later Ponnecorvo discussed Fuchs—with an air of genuine surprise. (Though admittedly this too may have been false.)

sup to keep the contemporary political events in mind, for there is no stal understanding of their tresses to be had in any other way, it is fatile to look lack to them; over the gult of the last would war, and the politics to the nitroteen-fifties can be surremely misleading about the past. One has the approach them subjectively. Their first memories, as small children, were of war. They were as school in the swenties when Europe was painfully trying so recover its equilibrium the days of inflation, of collapsing governments, of new politics arising out of famine and inequality.

It is true that by the time they entered their antiversities there was some stability in the world again, but the connectate depression paralysed the scene almost at once; and it is hardly surprising that these three young men, whose lives are almost synchronous with the rise of Marxist Socialisms should have begun to look towards the Soviet Republic satisfying the party white hope in an impossible world.

. Then, about the time they were raking their degrees and moving on to post-graduate, research (Nunn: May, as Comq bridge, Fuchs at Kiel, and Pontecorvo as Rome) she Reichand in Berlin was burned down, the Nazis began their extrapolities tion of the fews and the Communits, and from that moment (the spring of 1933) events in Europe were peacietly calculated to entreuch the impressionable left-wing student in the belief that his came, was the true, in fact the only, one. Within six years there followed Mussolini's attack on Abyeninial tha lapanese aggression in China, the Spanish civil war, the Amechluse, Munich, the German seisters of Propus, and finally the onset of the west incline Every new disaster seemed to demonstrate that Russia and the left aving had been right sinch the beginning; the Faciets had no be dentryed. And in face lefe-way foreign policy became the foreign policy of deutori canic governments everywhere. The left ming in other words was a popular and antirely legal movement, especially in the universities, and this sometimes forgones, fact has beinbe semembered in approximing the direct men we are considered ing bereat the interesting as produce we had one of while .. I offer this point not by way of apology for the trustom (the sevents and never council to created), but as the hallogs of their conduct and part of the explanation of in In sering down their case histories in the following pages & have had tine main object in view-to cry and discover why they send as they did. I have moved on the general presumption that they are not mounted or freaks who suffered from some disease or aberration in the brain, but rather that they are an textension of society melf and that they are in some degree, symptomatic of the since in which we are living. Certainly they were all in a special position. Had they been modegists the chances are that we would never have haird of them, for they would have had no great secrets to beauty and the Russians would not have bothered with them. But they were physicism and they found thenselves for a short time in posterion of a great scoret. They arrived at a point of power almost by accitheir They had no training in this use of power. None of them struggled up to it by force of character or through political elections, or by virtue of an hesodirary position. Power simply Let two their hope as says to retine it sort or console one

in Ninety-nine per cont of us never have an opportunity of 'altering history, but those men had that opportunity. They were not professional spins. They were educated men who, like most of the rest of us had formed ideas about the political problems of the world said (unlike the rest of us) were suddealy given are opportunity of taking direct section. Why their mentin particular should have turned traitor when the "vest majority of their colleagues did nos-this surely is a question that has got to be answered if we are going to know the meaning of security ever again; for there will be others like them, subjected to the same temperations. Somehow we have gor so discover where nien's loyalties really lie and then to them in their loyalties, so that we shall know an enemy home a friend. We have also got to know whether the security we vices in Britain and North America blundered over these men. and whether some special protection against their kind can

to female, and about in the season the desired and nome in this beat sales will be risk to me with the in I have measured an go has the fearfully operationed physics lumbich never the manufal of these men's presson, On the tente milestatide all we are concerned with here is the schoolstage squeen which was not my for the consumation of the expense thouse, and this can be used simply in noutevals in since with By 1999 acteurs all over the motid more developing their inquiries into nuclear facion, and mechanging information about the Same of the sion distinguished of these with were fide minus and History decree them out become they design Jours Thenesters to France, British and the United States As summ an man broke and they begin its choules the gomblier of Convenies their discoveries into a new wespon and with him m'Ar Cambridge and chembere in England, a gross deal a much on modes physics and related studies had already bean bloom before this war by such men on Sie James Chadwick. Si The Cachetoft, and other Reinsh estension, They were journed in the thirties by Peierle, Simon, Born, and others who who found out of General's and in the provent years. England was the securious for a graduated and has head a securior and and a feet and a securior and a securi Ginnan or anythog the During the ordy part of the war, hand on the sensial manny problem seried on a small scale Santian Britain and the Utiland States most of our mixtees physician recor an work for togeter ander peptileure, pry similar A Response special un in mely spec charac German mode de stance ancient. The German and seight of was Asyan anich who had sensited in Germany were known to be at work has share wise bester information of their property. So the making of the book was so some cuteres may in which the nours harm whether has wer ahead of or behind one's ormanest. in As the Maris moved versionals scrow-liveous the British seems are arrest throad by the striyal of other actuares, nombly ture Franch physicism, Halben and Kovytriki, who secured from Proces with 165 lines of heavy anner, which the french

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E BY ADAL-MARKET BARLESCHOOLS ROOM, WHERE THE CONTROL PARTY AND REPORT OF THE CONTROL PARTY AND PARTY AND

Then payments the cold of 1984 to the payment of the process of the Popular and H. C. Urry, came to linguist to exchange ideas, and from this time forward, with many political hisches and hesitations, the licinis and American afform marched forward together. Since Britain was under fire and the United States offered such immense facilities, it was decided to transfer the bulk of the experimental work to North America; and it was during these comparatively early dayased the project that blines have and facilities were calined in England and Postscorve in Capada.

In presenting this measured I have selled very much upon the help given me by the Assente Energy Division of the British Ministry of Supply, and by many of the selection officials, and others who know Num Man, Puche, and Postesoryo at the various stages of their caseen. This is in no way an official book—the original idea of it, the passen, and the opinious expressed are entirely my own. I have cried, however, to give

These presented of the British activity in these cases: and I am indebted to the authorities for allowing officials to check my facts and, within the limits of official security, to help me where they could.

I have also availed myself of the Government documents published in Britain, the United States, and Canada in the last six years, of transcripts of the court cases, statements in the House of Commons and at Congressional hearings, and of a mass of informed but unofficial material which has appeared in print since these events came to light.

If I do not give the names here of the many people who have helped and encouraged me it is because there is still so much controversy over these matters, and I do not think they should be associated in any way with the opinions and conchisions in this book. They may agree with me and they may not. The least I can do is not to embarrass them. I can only hope that they know that I remember our meetings with gratitude and that they will accept my general thanks.

them, and come role is a new ord, restource, where is a consistent of the constant for a constant of the constant for the con

In presenting the configuration of the expension of the land before the configuration of the

materialist Phis record se Combridge was bullbur; in 1941. be lied I liest Class Mathematics Tripus and in 1944 inc. graduand at a Hachelon of Arth and obtained a Long Class Namual Samuer Tripen He major op an Combudger after, graduations over of the most pronounce yours must of his year, and in 1970 he got his Discreter a Philosophy. That also was the year source between the work of the contraction of Numerical rever made, on the order of his lebewing sympathe few left-wing groups of his Ingland in the control well Evan the people who knew Allan Name May well have a difficulty in describing him precisely, though they make their meaning clear enough. To some he was a charming, shy little man with a dry sense of humour's Others remember him as "colourless", as v'rather a mousy little chap like a suburban bank clerks, as very quiet and retiring. As the time of his arrest he more glasses, he was going bald, and he affected a * small darks Hitlerite mountache. He lived alone very quietly, a senior reader in physics at King's College, London, on a solary of \$800 a year. When his acquaintances search their memories they can find little the to say about him (where they will talk for hours about Fuchs and Pontecorvo). Upon one thing, however, they are all agreed-that there was nothing whatever remarkable about the appearance or the manners of Dr. Nunn Mayers in 1997 to the Contract of

He was born on a May tope at King's Norton, near Birmingham in Worcestershire; one of a family of one girl and three boys. His father was a brass founder and moderately well to do. From the first Allan Num May was an exceptionally hard tworker. At thirseen he was a foundation Scholar at King Edward's School in Birmingham, and from there scholar ships carried him on to Trinity Hall at Cambridge. His masters at Birmingham recall that he was a solitary boy but not gath he had a very good lineary style. It was felt that he might have: been just as successful in the humanities as in physics of

he had a First Class Mathematics Tripus and in 1931 he graduated as a Bachelor of Arts and obtained a First Class Natural Sciences Tripus. He stayed on at Cambridge after graduating, one of the most promising young men of his year, and in 1936 he got his Doctorate at Philosophy. That also spect the year when in September he paid a visit to Leningrad.

Numn May never made any secret of his left-wing sympathies. Few left-wing people did in England in the numerous thirties. Those were the years when the undergraduants and Oxford passed a resolution that under no communication would they fight for King and Country:

At Cambridge, where Num May passed his most impressionable years, there was an even stronger movement sowards the left, and it was nothing extraordinary that he should havely bein drawn into she anti-Fascist snovement there. Many others, were in it too—men like Donald Mackan and Guy Burgesse who vanished from the British Foreign Office in 1953 and, who have never been heard of since. On logical and humanism grounds, if for nothing else, the left wing made any obvious appeal so British undergraduates in the chircles when the Russian experiment was still new; and it was bolstered by a generar and adolescent indignation.

Mackism was a challenge; it required a faith so strong that: you had to rise shove the normal weaknesses of mankind and even deny your own family if need be: You were embarked, in fact, on nothing less than the reformation of the world.

The English universities never side the full shock of this struggle that was going on between the left and the right on the Continent. There were no purges in England, no beatings on, no castor-oil treatment or interment camps. It was more of a philosophic than a political approach to Marxison. Yes a kind of vicatious those was generated and the left-wings students soon found opportunities for direct action.

The Midlands of England, where Nunn May was bound

the last of the la mon'at the card of the fewercies Chan by in Waltacutty of the minter had aloudy been out of moch for him years, said mour their plight became threadful its sent its trouseful ble thing Surhest and degrifour amemployed their pooled their last first shillings an him an shid one and debut to even the Sen Wallard Briens in our freschusile protest signaly: because life was not which living any mornished libraries in that yet at continue o At. Cambridge nome of the students began to make worth mon gours with the brished They welcomed the langer marchets another way as London and fought in mett, beende min shein behalf. When Six Oranid Mosley's Blackshirt snows mines appeared a pale milection of the Nasi and Fascist Parties on the Continent—they went to his meetings with the deliberate object of making proubler. But stress the Spanish givil war that telly accused them. Boys of miscreen and eventy-at. Cambridge and the other universities abandoned their studies and west off to fight with the incornational Brigade in Spain. There were not many of shem, but when they died as became wounded they were heroes in their day, the first martyrs in the new tradition of philosophical idealism which was to save the sworld from another war, it will but a

Allers Name More was not a man of action. He slipped through these events very quietly. He imbibed the philosophy but he did nothing drastic of implement it. He never dissinguished himself at political meetings or in the street brawls, nor did he go to Spain. However, soon after his return from Russia in 1936 he became a member of the editorial board of the Scientific Worker, the official journal of the National Association of Scientific Worker, an organization that included many Communists; and from this platform and in other ways he consumed his unobtrusive, persistent support of the left.

Then the war bloke cut, and the class struggle was swall lowed up in the emergency. Most students and undergraduates

Male to the state of the state of the state of

fincluding most of those who had word for the Oxford resolution) forgot their politics and weat off to fight. Num May was placed on a reserved list as a scientist. Shortly before the was he had left Cambridge and taken a teaching post at London University. His department was evacuated to Bristol and he lived at Long Ashton, just counide the town. He was recognized now, at the age of twenty-nine, as an exceptional man in his field of experimental physics, not one of the first flight, but certainly a man with a promising research career ahead of him, and he was befriended by such distinguished men at Professor C. F. Powell, who later won the Nobel prize for his work in physics. Then, soon after the war began, he was moved back to London where he worked under Sir Charles Ellis.

Here he continued until the spring of 1942. Ellis found him a precise and imaginative worker, one of the ablest experimentalists in the physica laboratory. It was partly on Ellis's recommendation that in April 1942 Nunn May was invited to join the Tube Alloys project in the Cavendish Laboratory at Cambridge—that same laboratory where Nunn May had worked so well half a dozen years before. It was known that in the past Nunn May had been sympathetic to the left wing in his private conversations, but there was nothing unusual in this—to indeed were many other scientists who were now devoting all their energies to the winning of the war. A pro-Russia man was a sound anti-Hitler man. In June 1941 Russia had been invaded by Germany, and she was our strongest, almost our only, ally in the actual battlefield.

The extreme secrecy of the work at Cambridge was explained to Nunn May, and it was then that he signed the Official Secrets Act, which was the same thing as taking an oath that he would never divulge the nature or the details of his duties to an unauthorized person. For the next eight months he was at work in Cambridge and from all accounts he worked well. There is no evidence that May was an active member of the Communist Party, or that during these eight months he was in contact with the Russian Intelligence Service. On his arrest in 1946 he refused to identify his contacts, and having made a short statement confirming the facts already known; shout his treason in Canada, he has refused any further information ever since. It well could be, however, that he did make, some contact, while he was at Cambridge, for Gouzanko's, documents make it clear that the Director of Intelligence in Moscow knew all about him, It was the Director in Moscow, who instructed Colonel Zabotin in Ottows to get in speach with May, and the password was supplied by Moscow, it was best regards from Mikel. This makes it clear that May, already knew that password and may have known it it was already knew that password and may have known it it is a long time, even when he was still in England.

Outwardly, in 1942, be was immersed in his work and doing it so well that in January 1943 he was asked to go to Canada as a senior member of the British team working with the Canadians at Montreal. This organization was a joint Anglo-Canadian effort, for by now it was realized that with Britain under extreme pressure in the war a great deal of the experimental effort could be more profitably done on the other side of the Atlantic. In Montreal, 600, the British could maintain a closer co-operation with the Americans, besides advancing their own heavy-water project in conditions of security and safety. Chalk River, an isolated spot in the open country to the west of Ottawa, was later chosen as the site for the larger heavy-water pile. For the next two and a half years; when the bomb was perfected and the war won, May moved regularly between Chalk River and Montreal and paid some visits to the Argonne Laboratory at Chicago.

He travelled to Canada in January 1943 on a banana boat with half a dozen colleagues and their wives. He was the only British-born scientist in the party and the senior member of it. Looking back now on that crossing, some of the members of

2

the party recall that May was neither very convival nor nonceasity desiched. He usual he was simply quicity there in the background, volunteering hothing but willing to be drawn into any strivity. One night they played the game of minders it was a difficult matter for the player who had to find the minderer among the paraphernalia on the blacked our decks. One of the wives remembers that when it came to her turn to be the detective she saw May standing there, mildly superior cilious and apparently aloof from the garie. She dismissed him from her mind and went off in search of the others was May who furned out to be the murderer.

In Canada he lived sometimes in staff menes, sometimes sharing an apartment, and sometimes alone. Towards the end he had an apartment at Swall Avenue in Montreal He was the one whom the wives of the other scientists asked to dinner, not out of any special friendship, but because they thought he was so much alone and they were sorry for him. But life for Allan Nunn May blossomed our considerably in Canada: Herhad more money to spend. The drab blacked-out cities of England were now replaced by lighted streets and by the reassurance that comes from warmth, good food, and physical safety. Despite his reputation of being a lonely figure he did make attachments, and it is possible that he began to discover" an affection and a confidence which had been lacking in his life before. In other words, the same stimuli in Canada which drew Gouzenko over to the side of the Western democracies. were working in precisely the opposite way in the case of Nunn May. He has never revealed, as Fuchs has, the secret processes of his mind and the circumstances which led him to become a traitor. But he did have this comfortable and assured position through the last half of the war, and his friends: believe that this had a bearing on his docision to pass information to the Russians. It was the gesture of a man who has got nomething to space, of one who has to prove himself a hero in the midst of comfort.

refluence Many was an experimental physicist, and his work was concerned with the wider aspects of atomic research rather than with the bomb itself. Nevertheless, he knew about some of the steps that were leading up to the construction of the bomb; he knew about the graphite piles at Hanford and the production of plurimining and he was fully conversant with all that was being done at Montreal and at the heavy-water pile at Challe River. He made four separate visits to Chicago in 1944; and General leadingly Grower, who was the military commander of the Asperican atomic research organization, has necoded in a letter to Scantor Hickenlooper what the Americans knew of him. In this letter, died as March 1946, Grower 1994 1996 (M. 160 2014) (S. 160 1914)

He has been investigated, the security purposes, by the British Mittiligence. That organization closed him for access on may summic energy work. It was not pricticable nor was it one can to took behind the approval of the British organization of to the trustworthiness of any individual whom they had finance gated. I am sure that they found no indication that he was not accompletely loyal and of monuncioned integrity.

"The General goes on to relate the details of May be mide and Chicago and he adds: 10 at 1

By this time [October 1944] May had sport more time and acquired more knowledge at the Argonne than any other British physicist. Although I had absolutely no resson to suspect him, if did not like to have him acquire such a wide knowledge of later developments. It is for that reason that in the spring of 1943 I declined to approve a proposed fourth visit of one month's duration. May never returned to the Chicago Laboratory and never visited any other Manhattan District installation.

There is an obvious contradiction here. General Groves is in effect saying: 'We accept the British clearance of these mone on the other hand we do not trust them.'

Manhattan Engineer District was the name given for the momie research organization in the U.S.A.

"" General Groves was of course; in a difficult position (The Americans wanted the help of the British, but the British were after all foreigners. The Americans had no means by which they could readily investigate the acientists who were sent to them even if it had been politic for them to do so. They had to take the British clearance on trust. Yet the fact is that some sort of investigation was necessary, since all the atomic trained. both British and American, were for a long time in America and the great bulk of their spying was done there. It is one of the unhappy objects of this book to prove that all accurate is inevitably fallible, porticularly in the case of the ammic spina and on both sides of the Atlantic of who standally might care

This is a point we can return to later on. All we need note: here is that the American misgivings about the British-misgivings that were justified as, it has turned our-had a strong bearing on the mind of Allen Nunn May, for as aoon as you keep a secret from your friends you breed a mystery, and even though you have the best intentions in the world/that mystery breeds distribute the first of the market make one on 1 2000 to

Nobody likes to be kept in the dark And it is a fact that the British scientists in Canada did feel they were being kepe in the dark, especially in the early days of the project where they hung about idly at Montreal waiting for equipment and supplies of heavy water with which to carry on their experiments it would be foolish to pretend that there has been a full interchange of information between the American and the British. There has been acientific collaboration on a scale never attempted before between two nations; but it stops short of a full exchange. By how much more then did the Americans stop short in their relations with Russia. To a man like Num May, a self-appointed world-saver, this was a galling thing, it was not right. The Russians were our allies, and in. this important matter he considered that they should have been taken into our confidence. He chose, through some pecuhar logic of his own, to overlook the fact that the Russians.

themselves were the wheel of ballaboration, McContestant more sushicious than the Americans. Throughout the war the confided practically nothing to their Western alles. But Russ had a special sanctity in the eyes of Nuch May; perhaps the decided to present their with his small thise of knowledge acquired and stolen, in order to redress their ignorance.

The methods by which Nilm May proceeded to his expen age are thirty well known through the documents what Gouzenko brought out of the Russian Embracy at Oction and the evidence of Gottenko himself. Carrainly by the social of 1945 his contact with the Russian was buildished the Witel spirite when the first aboutle both was about to be keen out hi the Alerhogordo desert, and the Khariso the grant Service was pulling every plants was to obtain advance knowledge of it. The Director in Moscow first suggested of Colonel Zaborin, in Opposithet May should be approached through Fired Rose, the Community Member of Parliament who, was one of the orneral figures in the flandisc and Zebonio, however, chaught chis sociabrious and stransferences chargerous. He asked and got permission from Mesons on one of his own men, Liousenant Pavel N. Angelov, to make the council This Angelov was the same man what with three other Russians, subsequently broke into Cousculto V sparit thens. It is always the practice of the R.L.S. to chiguin the society real names, even inside the newtork, and Magelet was given the code-pame Danier Num May became Alck By some means, not now known Moscow gor w success will Alek and warned him that Banter would approach him, giving the partword Best regards from Mikel A 200 Ke and

At this stage Nimi May was primarily directed by Russians towards obesiming information about treatment mile atomic energy rather than about the bomb. Through the sucha and early summer there may have been one or more bisering with Bexter at which Alek handed over all the information h his possession about atomic research in Canada and the U.S.A. This information was sent by cable to Moscow, while Alek's own handwritten notes followed on by bag. For these services Baxter, early in April 1945, gave Nunn May 200 dollars. The notes were stuffed into a whisky bottle, presumably for the purposes of secrecy; meetings between spies usually took place in the street.

A second genuine bottle of whisky was apparently given to May at the same time. Baxter on his return to the Embassy made a note of the transaction: '200 dollars ALEK and two

bottles of whisky handed over 12.4.45.

Then, some time in July, Alek warned the Russians that his job in Canada was coming to an end and that he must soon return to London. Zabotin wired Moscow for instructions, and in a telegram dated 28 July 1945 the Director replied:

Try to get from him [Alek] before departure detailed information on the progress of the work on uranium. Discuss with him: does he think it expedient for our undertaking to stay on the spot; will he be able to do that or is it more useful for him and necessary to depart for London?

Num May was contacted again in the first week of August, and this turned out to be for the Russians perhaps the most fruitful meeting of all, for Num May had succeeded in stealing, probably from the laborarories in Montreal, minute samples of separated uranium isotopes. By now the first atomic bombs had been dropped and Alek was able to report on this too—no doubt he got his information through some grapevine of the scientists. The samples, together with May's written report, were regarded as so important that a Colonel Monnov, the Assistant Russian Military Attaché at Ottawa, was instructed to fly with them at once to Moscow. They were placed in a container marked by May '21' or '250' enriched'. At the same time the following telegram was sent:

To the Director:

Facts given by Alek: (1) the test of the atomic conducted in New Mexico (with '49', '94-239'). The bomb dropped on Japan was made of uranium 235. It is known that the output of uranium 235 amounts to 400 grams daily at the magnetic separation plant at Clinton. The output of '49' is probably two times greater (some graphite units are planned for 250 mega warth, i.e. 250 grams each day). The scientific research work in this field is scheduled to be published, but without the technical details. The Americans already have published a book on this subject.²

Alek handed over to us a platinum with 162 micrograms of uranium 233 in the form of oxide in a thin lamina. We have had

no news about the mail.

The telegram was signed 'Grant', which was Zahotin's code name. Zabotin was also able to send some further details with which May supplied them about the American electronically controlled anti-aircraft shells which were then being used against the Japanese suicide-flyers. Finally, on this most successful day, the Russians had got a report from May on another Englishman, Norman Veall, whom they were thinking of enploying. May went to some length in advising them about Veall. Although Veall was a junior man and some eight years younger, May knew him well. They had met at Cambridge at meetings of the Association of Scientific Workers and for some time May tutored Veall for a degree in physics, For this purpose he visited Veall at his home every week. Veall was a member of a party of British scientists that crossed the Atlantic to Canada on another ship at the same time as May and the two men renewed their acquaintance at Montreal.

Veall gave evidence to the Canadian Royal Commission, and in the course of it he said that he was a member of the Young Communist League. I knew quite a few Communists

² This was the H. D. Smyth report, published by the U.S. Government in August 1945. It is still in 1932 the fullest account yet given on how the bomb was made.

in Cambridge,' he added, 'and one or two at least were close friends of mine and continued to work in the same lab.

Veall was much too open in airing his political views for May's liking, and in Canada May warned him about it. For obvious reasons, May himself had grown cautious about discussing politics in Montreal: and it was a settled rule of the R.I.S. that agents should have no open connexion with the Communist Party. Veall moreover had compromised himself by carrying Communist documents about with him, and he had openly visited the Russian Embassy at Ottawa-which was another thing that was strictly forbidden to agents or prospective agents. So now, in August 1945, when May was asked his opinion of Veall's usefulness he was very precise. Veall, he said, occupied a fairly low position and knew very little. He was also inclined to be careless—as an example of this May pointed out that on one occasion Veall began a conversation with him while Veall's wife was still in the room. Worse still, he was known in the laboratory at Montreal to be a 'red'.

As a result of this the Russians decided not to employ Veal and the network was warned against him. There is no evidence that Veall gave information to the Russians at any time and the Commission exonerated him with the words: 'Veall did not communicate information with respect to atomic work for the reason that the Russians designedly did not ask him.

But from this time forward Zabotin had need of any reliable agent be could get, for the Director began pressing him for more details. Zabotin himself made a journey to the vicinity of Chalk River so that he could make a personal inspection of the exterior of the plant; he urged his men to obtain every fact they could get hold of, and on August 31st he cabled a little fretfully to the Director who was not an exceptionally grateful master:

I beg you to inform me to what extent have Alek's materials on the question of uranium satisfied you and our scientists (his

collesports on production etc.). This is necessary for m to know in no order that we may be able to me forth a number of tasks on this question to other clients to the and on them and the A. A. S.

"May himself having supplied his samples, went off on a visit to Chalk River. He was there on August 18th, and is was probably some time before this that he made it clear to the Russians that there was no question of his remaining in Canada: he had to return to England where a post was awaising him at King's College, London. It was therefore necessary for careful arrangements to be made so that May could make contact again in England in the event of his continuing to have access to useful information there. These arrange-. ments were worked our between London, Ottawa, and Moscow. Already several menages on this subject had passed through Gouvenko's hands at the Embassy. They were: from the Director to Zabotini spice, famo had bladerows to all

Work out and telegraph arrangements for the moeting and the password of Alek with our man hy London wiger id to

To this Zahotin had replied at the end of July; sales A

if To the Director: Sometimes or a direct forthe direct to We have worked out the conditions of a meeting with Alek in London, Alek will work in King's College, Strand, It will be possible to find him there through the telephone book.

Meetings: October 7.17.271 on the street in front of the British Museum. The time, 11 o clock in the evening. Identification sign-Best regards to Mikel. He cannot remain in Canada. At the beginning of September he must fly to London, Belore his departure he will go to the uranium plant in the Petawawa district where he will be for about two weeks. He promised, if possible, to meet us before his departure. He said that he must come next year for a month to Canada. We handed over soo dollars to him, say of man from the forester to be bediened in

the court Mousing on October 9 or 27 or 27, centile gets 197

Mostore than got in south with their Louden agent pulled wildenly suggested an alternation of the meaning mining to an August 1945 the Director cabled Zalichia will assume the control of the control of

The arrangements worked out fing the specified are see satisfactory. I am informing you of new ones.

The Place: In front of the British Museum in Landon, for Great Russell Street, at the opposite side of the street, about Museum Street, from the side of Tottenham Court Road, repeat Tottenham Court Road, repeat Tottenham Court Road, the contact man from the opposite side — Southampton Row.

Time: As indicated by you, however it would be more cited podient to carry out the meeting at an o clock, if it should be convenient to Alek, as at 23 o'clock it it too dark. As for the time agree about it with Alek and communicate to me the case the meeting should not take place in October, the time the indicated and day will be repeated in the following snooths. I day to the

3. The Password: The contact man: What is the shortest way to the Strand?

In the beginning of the business conversation Alekanys:

Best regards from Mikel.

Report on transmitting the conditions of Alekanys.

No doubt these details were communicated to Miny. He made a final visit to Montreal to Chalk River on September 1rd and a few days later set off for England He arrived on September 1rth and shortly afterwards took up his appointment at King's College in London, where his work was no longer concerned with secret material. But whether or not he had the desire and the power to do still more harm was no longer of any consequence. For by now Gonzenko had documped from the Russian Embasy in Ottawa and Ganadan intelligence officers had already translated the Russian telograms which are quoted shows. Allen Num May's espionage was finished, at least for a decade, and probably fire even.

5 In seas show was said a persial black-case of smean image in London.

Mining a probability with an entire and the probability of a particular to the particular to the probability of a particular to the particular

There is one other aspect. Commodepinned is often finited to work upon half-truths, suppositions, implications, and over guesswork. Often it may pick up half-the links in a chain and never meanth the rest. You may be left with the legical emittainty that a man is guilty but the buildence wealable will not used up in a court of law and up a conviction chance be obtained. Then, wood it may often happen that country spinnings effects will not wish personal their evidence publicly lest they projudice other sum that a meaningsting; less the cauching a specketel they min the thacks

Market metrics were admirably discussed by Ma. J. Edgar Houver, the head of the P.B.L., when he appeared before the Senate: Appropriations Sub-committee in Washington in

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32

February 1950. He said: 'In a criminal case the identification and arrest of the wrongdoer are the ultimate objectives. In an espionage case the identification of the wrongdoer is only the first step. What is more important is to ascertain his contacts, his objectives, his sources of information, and his methods of communication. Arrest and public disclosure are steps to be taken only as a matter of last resort. It is better to know who these people are and what they are doing, and to immobilize their efforts, than it is to expose them publicly and then go through the tireless efforts of identifying their successors.

Consequently the Special Branch as Sootland Yard did not proceed to the interrogation and arrest of Allan Numb Make directly they had word from Canada that his name was mentioned in Gouzenko's documents. Quite clearly it was of great interest to learn whether or not Numb May was going to keep his appointment on either the 7th, 17th, or 27th of October, and if not in October then in November or December, it was important, too, to learn the identity of the man he was supposed to meet. It was to be presumed, of course, that as soon as Gouzenko defected, the Russians made a rapid check on the documents he had taken and had warned their agents accordingly.

Sail one could never be sure.

Great Russell Street, the place of the rendezvous, is a fairly busy street in the centre of London. It is dominated by the long façade of the British Museum, and the other buildings for the most part are tenanted by respectable publishers. The front of the Museum is an easy place to watch, for it is an open place with no shops fronting the pavement, and no great crowds at eight o'clock at night, and it can be easily observed from the windows on the opposite side of the street.

But Nunn May kept none of the alternative appointments in October; nor did he appear in November. Moreover, there was nothing to excite the slightest suspicion in his comings and goings at King's College. He gave his lectures in physics

chief to the moin way and enablacied himself with every apparathes of being a necessal metaber of the staff of the University. He took rooms at Stafford Terrace in Kentington, and fived wary quitely, regarded, which warfed by the Raminan He could not have learned by any legal income of Grandale for nothing was released to the Press entil 13 Petrusry 1940; when Mr. Markhestel King made a public statement in which he amounted that a Royal Commission was being act which he amounted that a Royal Commission was being act in formitation to a foreign Power.

pushing and difficult five months in the previous September, directly he was convisited of the seriousies of the matter, he had visited Mr. Truman in Washington and had then gone on to England to see Mr. Anthen He arrived at Southampton on October 6th, the event Manna May's first alternative rendervous outside the British Museum. May's identity had by then been definitely established, and both May himself and the place of rendervous were watched.

Meanwhile Mr. Attlee and Mr. King pretended as the wider aspects of the esse, and they were very serious indeed. The Moscow Conference of the winter of 1943 was impending. The foreign ministers of all the major United Nations Powers would be attending, and there did stem to be some bope that, negotiating on their own ground, the Russian could be brought to an international actilement at last. Neither Mr. Truman nor Mr. Artlee was at all eager to bedevit the atmosphere of the Conference before it had even started—and that most certainly would have happened if Mr. King had come our with a denunciation of the Russian Embassy's activities in Ottawa. In any case many weeks were required yet by the Canadian police before they could translate and disentangle Gouzenko's documents—there were about a hundisentangle Gouzenko's documents—there were about a hun-

If gave and had given very markel educidateled to correct were of making ours that development of assume energy and not confined to U.S.A. I took the very paintal delimination it is not necessary our courty general information on attends energy and make such it was maken amountally. For this session I decided so entertain a proposition inside to such by the indistribular who called our me to go, should in merry permadurant with a more permadurant setteral subsequent decisions which in Canada Hamada species for information which were just mounts on the lands that they were difficult for me to complete hands But he did request samples of respicus from and information generally on atomic energy.

Allegander and a supplied to

"Attente meeting I gave the man microscopic amount of Ua13 and Ua15 (one of each). The Ua15 two a slightly one tiched sample and was in a small glass tube and consisted of about a milligram of oxide. The Ua33 was about a tenth of a milligram and was a very thin deposition application of and one and was a very thin deposition application of and one and was wrapped in a piece of papers becaute no tent out

if I also gave the man a written report oil atomic research at known to me. This information was mostly of a character which has since been published on a about to be published...

"The man also saked me for information about the U.S. electronically controlled A.A. shells. I knew very little about these and so could give only very little information, a solution. He also asked me for introductions to people employed in the laboratory including a man named. Vealer but I advised him against contacting him.

The man gave me [here the phrase 200: Ann., was crossed out] some dollars (I forget how many) in a bottle of whisky and I accepted these against my will produce the 200 minute.

"Before I left Canada it was arranged that on my return to London I was to keep an appointment with somebody: I did not know. I was given precise details as to making contact but I forget them now. I did not keep the appointment because of his delicité this chiefeldisting philoship and in longer appropriate the color of the philosophie of the color of the philosophie of the color of

The whole after the tented by partial to me and I doly ambierled do is because their the way a considerable to do is the tented to the tented

William Whitcheid of the Special Birnish were to King's College and at 1,30 p.m. met May is he was coming out of a literature. The injective who did not special branks the inject of a literature. The injective who did not specially postential the inject twice the inject the inject twice the inject was thousand warrant for your arrest, which I will read to you in a thioment warrant for your arrest, which I will read to you in a thioment into the police and which was dentily there and Whitehead read him the warrangs He made no blinning there and Whitehead ob Bow Street and charged under the Official Street Act but again made no continues. Indeed, he had think my their made no continues. Indeed, he had think my their made no continues. Indeed, he had think my their made no continues.

Meanwhile the storm had broken! Machinize King status ment, which indicated that many others besides May were implicated, had given the public's first intriguing stew of a new landscape in treason, where the adjustery of the botals was added to the mystery of the spy; and it had opened up a new and minister relationship between Soviet Russia and the countries of the West? And the arm of the Mest.

("On February soth, while May was being quintlened the London's Solomon London's the Deputy Comminter of Foreign's Affairs in Moscow, sent for Ledn Mayrand, the Charge's d'Affaires at the Canadian Embany; and read to him a state-it ment; [sticking (lineals at the Canadian Embany; and read to him a state-it ment; [sticking (lineals at the Canadian Embany; and read to him a state-it ment; [sticking (lineals at the Canadian Embany; and read to him a state-it ment; [sticking (lineals at the Canadian Embany; and lineals at the Canadi

"The Soviet Government", it said, "considers it necessary so to make the following statement: " "Soviet organizations have become bream that in the latter!

19

periods of the way pursus pumphets of the staff of the Soviet Military Attachs in Capada received, from Capadian nationals, with whom they were acquainted section information of a secret character which did not, however, present great interest, for the Soviet organizations, it has transpined that this information referred to technical data of which the Soviet organizations, had no need in view of more advanced technical attainment in the U.S.S.R.: the information could be found in published works on radio logation, etc., and also in the well-known brochuse of the American H. D. Sovyth, Attendarian

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None the less, as soon as the Soviet Government herame moure of the above mentioned acts of certain members of the staff of the Military Attaché in Canada, the Soviet Military Attaché, in view of the inadmissibility of acts of members of his staff in question, was recalled from Canada. On the other hand it must be borne in mind that the Soviet Ambassador and other members of the staff of the Soviet Embassy in Canada had no connexion with this.

The statement went on to accuse the Canadian Press and Government of deliberately making bad blood between the two countries.

The last point in the statement quoted above was probably true insunuch as Zabotin, we know, reported direct to the Director of the R.L.S. in Moscow, and according to Gouzenko he used his own code which was not known to the Ambasador. What was not true, however, was that the information given by the Canadian net, especially by Nunn May, was either insignificant or available in officially published pamphleos.

Num May's information went 4 long way boyond what, het appeared in the Smyth report, it went further than any-

thing which has been published even today. Far from it being of no great increat to the Russians, the Director in Moscow was, in we have seen, intensely auxique to get it. Nevertheless May did not tell the Russians how to make the atomic bomb; no, one in Canada had that information. That secret was known only to a very few people in Washington and at Los Alamos in New Merico, and May had no access to any documents from them.

The Num May trial in London attracted no very great interest, or at any rate no very great public indignation, Ar that time, so soon after the cease-fire, the public mind was much more concerned with a different sort of traitor, men like William Joyce, who had worked for the Nazis in Berlin, during the war. In France, Italy, Holland, and Belgium it was the Nazi collaborationist who was being hunted down in 1946; not the man who had gone beyond his duty in giving assistance to our allies the Russians, Even for the more politically conscious people who saw that the war with the Germans was dead and done with, and that a new alignment was taking its place, the East against the West, this was no moment to provoke an outcry against Russia. What we wanted was to collaborate with Russia, to achieve some basis of murual understanding and, at all costs, to avoid another war. Another war was unthinkable. We wanted, in Wendell Willkie's phrase, one world.

Very many of the scientists who had worked on the atomic bomb came forward and proposed that while there was still time, while this awful weapon was still undeveloped, we should legally do what Allan Nunn May had already illegally done in his own small way—pass information to the Russians, so that we could arrive at some reasonable arrangement with them. Through its spokesinen at Lake Success, Mr. Bernard Baruch and others, the United States proposed the outlawing of the bomb. It was a handsome offer. The United States was ready to give up its lead in atomic weapons, to demolish its

stockpile, and turn loved its laboratories to the peaceful developits, ment of atomic energy provided only that Russia on them side would grannose to do the same thing. To same ment it account inconceivable that Russia, who had suffered so minchely could fail to agree. Somehow in some way Russia's suspicional could be overcome and she could be got to see that the Westal was sincere. This may seem nalve in 1952, but it was not count sidered so then: and so a spy like Num May, a Russian colorist laborationist, was not outrageously at odds with the countary political thinking. In a strange underhand way, he was not guarantee to the Russians that there were men in the Westal who were on their side, who whenced them to be equals in an free world, so long as there was peace.

This, of course, is putting the most charitable possible into terpretation on Numn May's actions hit is accepting his count fession at its face value, since it does not take into account that the was a Communist and therefore must have wanted to see the Russian, not the democratic, way of thinking dominate a the world. He wanted, presumably, not just one world, but one Russian or Communist world. And as a Communist ho; must have been prepared to see the destruction of the institutions of democracy in order to get it.

But then he was an intelligent man, just the sort of man, it was thought, who could be brought around to some rational plan for the security of the world. He did not look like an anarchist, He was as mild as Einstein, as serious as Mr. Baruch. He was a university lecturer, and that was where the scandal lay: that a university man could ever have got himself mixed up in this business. He was not very high up in the hierarchy of physicists, it was true, nevertheless he was an able man and the representative of a great institution. It was deplorable that the should appear in a police court, something had gone wrong somewhere, and perhaps he was telling nothing less than the truth when he said: 'When I returned I decided to wash my hands of the whole business . . . the whole affair, was ex-

women's painful to me and Locals embacked on it became t felt, that eras a contribution I could make to the safety of many kind." In other words, he was claiming that he had aged on the best of motives and he could not being filment an admin that he had really done wrong in the larger mosal hemisphis of thinking in which, apparently, he lived. This was the stand woon which his counsel based his case in count. If not a norm 77 There were two police court hearings and a stiel such costs ducted with dispatch, and since so much was will stored; with the minimum of evidence. He first appeared at Bow Street to 5 March 1946 and was remanded for a footnight while the prosecution gathered further evidence. On Merch atth he yes brought again, before the court at Boss, Street, pleaded not guilty, and reserved his defence. Having heard a brief scround of his career, his confession, and the circumstances of his agrest, the magistrate committed him for trial at the Old Bailey. Buil was refused. On the and of early the my the sounds of the sounds of the sounds of

The Old Bailey trial on a May, 1946 was a full-dress affair before Mr. Justice Oliver with the Attorney-General, Six Hartley Shawcross, prosecuting, and Mr., Genelal Gardines appearing on behalf of the prisoner. The proceedings opened with:

The derk of the court: 'Allan Nunn May, you are charged; with communicating information contrary! to the Official Secrets Act, 1911, and the particulars are that on a day between, the 1st of January and the 30th of September 3045, for a pury pose prejudicial to the safety and interest of the State you communicated to a person unknown information which was calculated to be or might be useful to an enemy. Are you guilty, or not guilty?

The prisoner: 'Guilty, my Lord.' in the support of the

Sir Hartley Shawcross began by describing this as a somewhat squalid case' of a man who had set himself up above the, laws and the policy of his country—though it was true that there were people who thought that the atomic discoveries should be shared between all nations. Indeed this was a hope to which we must aim—that the United Nations Organization would be able to establish conditions of sufficient confidence and stability to make that course possible.

Num May had signed the Official Secrets Act. He had known what he was doing. Yet he had given information, and accepted money for it. May's confession was read out in full except for the reference to the samples of uranium—those details were

still judged secret at the time.

Mr. Gardiner in defending admitted at once that the agent to whom May had given information was a Russian. He said that May had not given away the actual secret of the bomb; his information had merely saved foreign scientists engaged on . atomic energy research a certain amount of time. Mr. Gardiner went on: Doctors take the view, rightly or wrongly, that if they have discovered something of benefit to mankind, they are under an obligation to see that it is used for mankind and not kept for any particular group of people, and there are scientists who take substantially the same view.' May, in doing what he did, had not worked in concert with any other British scientists-he had come to this decision entirely on his own responsibility and without reference to anyone else. In Febmany 1945-when the acts were committed—the British Army was mostly in Holland, certainly not across the Rhine, and the Russians were in the course of their drive to Berlin, It was customary to refer to them as allies who were doing at least their fair share in the war. It was perhaps an ironical expression if anyone at that date referred to them as enemies or potential coemies.

At this point the Attorney-General interjected: 'My Lord, I think I ought to make it abundantly clear that there is no kind of suggestion that the Russians are enemies or potential enemies. The Court has already decided that this offence consists in the communication of information to unauthorized persons—it might be to your Lordship, it might be to me or

to anyone. . . . What is hit at by this section is the fact that once information passes out of the control of His Majesty's Government, although in the first instance it may be to persons whose attitude to this country is entirely friendly, there no longer remains control over it and it may get into the hands of enemies.'

Mr. Gardiner then returned to his point that May had been influenced by a statement made by Mr. Churchill to the effect that we had offered Russia any technical or economic knowledge in our power which was likely to be of assistance to them, Rightly or wrongly May felt full of indignation that the promises of communication of technical assistance which had been given to one ally should have been made the monopoly of another.

Mr. Gardiner concluded: 'He had nothing to gain, except what we all have to gain by doing what we believe to be right; and he had everything to lose.'

May was asked if he had anything to say and he answered, 'No, my Lord.'

This was Mr. Justice Oliver's sentence:

'Allan Nunn May, I have listened with some slight surprise to some of the things which your learned Counsel has said he is entitled to put before me: the picture of you as a man of honour who had done only what you believed to be right, I do not take that view of you at all. How any man in your position could have had the crass conceit, let alone the wickedness, to arrogate to himself the decision of a matter of this sort, when you yourself had given your written undertaking not to do it and knew it was one of the country's most precious secrets, when you yourself had drawn and were drawing pay for years to keep your own bargain with your country—that you could have done this is a dreadful thing. I think you acted not as an honourable but as a dishonourable man. I think you acted with degradation. Whether money was the object of what you did, in fact you did get money for what you did, in

is a very bad case indeed. The sentence upon you is one of ren' years penal servinude." The Board willing that an idea wina

Section 1

Having untered nothing in his own defence, still refuting to identify his contacts or help the authorities in any way, May vanished from the public scene to Wakefield Prison, in Yorku shire. His case was like a rehearsal in an empty theatre, a prologue delivered to an unresponsive house before the atmosphere had been created and before the real action of the tragedy had begun! There were still, however, one or two echoes from the case which sound oddly now in the ninetteinfifties when so much has happened and when our feelings about this sort of treason have become so firmly fixed. "The goals

A month or two after the trial the Association of Scientific Workers in Britain issued a statement calling for a reduction of the 'extremely harsh' sentence of ten years passed on May. 'It is noteworthy', the statement read, 'that the maximum sentence under the proposed Atomic Energy Bill is penal servitude for a period of five years. It is clear that no account was taken of Dr. May's positive contribution to the winning of the war by his scientific work, and that the sentence is out of all proportion to the magnitude of the offence committed.'

A few days later an independent member of the House of Commons, Mr. W. J. Brown, asked the Home Secretary, Mr. Chuter Ede, if he would review the sentence.

Mr. Brown said that it was perfectly obvious that May was no common criminal and no traitor in the ordinary sense of the word. He had suffered a much heavier sentence than had born passed on many people who had sold their country for money. The whole issue of atomic bomb secrecy constituted an extremely doubtful ethical area and would the Home Secretary have another look at the case?

Mr. Ede replied: 'It was open to this man to appeal against the sentence, although he would have run certain risks had he done so. It is still open to him to apply for an extension of trine within which to lodge an appeal. I do not accept the implications or the statement made by the honourable member. I can understand although I cannot condone the attitude of a man who said he was willing to make knowledge he had acquired generally available. But this man did sell knowledge he had acquired in the service of this country to a foreign Power for their private and particular use."

There were, at this, loud cheen in the House,

Just one more attempt was made by the Association of Scientific Workers when they waited in a deputation upon Mr. Ede in the following year; 1947, and again asked him to reduce the sentence. The deputation was led by the late Professor Harold Laski and the answer was no.

After that nothing more has been heard of this matter. Num May indeed may hope for a reduction of his sentence by one-third on the grounds of good behaviour-and he has been a model prisoner. If this happens he will be released at the end of this year or early in 1953 after a term of a little more than six years. He may emerge changed in his political views. But that perhaps is no longer of much importance. What matters is that politics themselves have changed drastically in these six years, many new issues have come forward, and there is a cast of unreality and puniness over all the things that Nunn May and his friends may have hoped for in 1945. the state of the s

when the news of Allen News May sparest, enclosed the semic research station at Los Alamos. New Monico, in March 1946, there was not unnaturally some little excitement among the British scientists and their families them. Here was one of their own people and he had turned out to be a spy come of the wives heard the news first on the radio, and the came running to tell Klaus Fuchs and others who had been working these on thousante bomb for the past year or more at once they began asking each other: Who knew Nump. May? What was he like?

I knew him fairly well, one of the women said. But I don't know how you would describe him. He was like why, he was rather like Klaus here.

Dr. Fuchs smiled politely but made no comment. However, he did discuss May's treason and he doubted whether May could have told the Russians very much. He had no very high opinion of Allan Nunn May either as a scientist or a

Even in 1946, before anyone knew about Fuchs's real character, it was perhaps stretching the facts a little far to suggest there was any real resemblance between the two men. There were certain superficial similarities, both physical and mental. They were very nearly of the same age—Fuchs was just eight months younger. Both were rather detached and non-committal in their manner. They were serious and shy and self-effacing. Both of them were adorned with the same bulging

forthead, the peopling bair, the homeimuca glasses, the at mouth and the slightly weak chin, And in their societ bearts. as me now know, both of them thought they had a men to refrom the world. So the pattern was the same. But in the quality of that pattern, its design and emphasis, they were different as hydrogen and lead. Everything show fuch lighter and more finely, made, May, was A aguard Fuchs was Jean, Frichs had a sensitive and influering face. mildly lost air, and this made a gross appeal especially o women. He was just as silent as May but his silences west endurable. He was woefully short sighted but behind the thick lemes his eyes had a certain inward quality that comes qually from reflection, over long periods and alone. His thin body was a good deal stronger and more resilient than it looked He never played games (because he believed he could never play them well), but he was an exceptionally good dancer, a mountaineer of more than average reasony, and a skier. The ides of poise, of holding yourself perfectly under copared in difficult circumstances, played a very large part in Klaus Facts scheme of life, all my to archive to

From America he came on to Harwell in England after the war, with a great reputation for his work at Los Alamos and New York. He was a senior man at Harwell, the head of one of the most important departments. He did not, of course, rank with Nils Bohr, Einstein, or the other half-down at the top. Still he was well up in the second flight, a distinguished and respected scientist of international standing. By 1940 he was earning a salary of £1,800 a year; though a bachelor, he enjoyed the obscure privilege of having a prefab house of his own, and he was rated as a possible No. 3 in the Harwell hierarchy under the Director, Sir John Cockcroft, and Professor H. W. B. Skinnet.

He had just a very few close friends, and outside cliese he was not notably well liked by his department or his acquaintances at Harwell. He was too difficult to know. Despite all

440

his long years in Hingland he received to have had no success in adopting Bricks manners or a British cast of thinking; he remained German and there were times when his subordinates felt this keenly. But Harwell is a small community brought together by the brains and not by the social graces of its its mater, and their lives are compulsorily thrown together. 1949 Dr. Fuchs was established at Harwell in the same way a an officer is emblished on a ship, a master in a school, on resident doctor in a hospital. He was known and he was france. His whole life was there in Harwell for anyone of the He was a strange man in many things, but there were other strange men in Harwell too, and his strangeness, his eccentricines, became the accepted and distrillar parties by which be wai known.

When he sat down, for example, he had a neeven trick of crossing his knees and constantly turning one of his feet round and round. He was a chain-smoker of cigarettes. And he was a fabulous drinker. He drank, not persistently, not like a socie, but on certain occasions and with a sort of undergraduate bravado. He drank near numblers of gin. He commined near whisky by the bottle. And the whole point of this operation was to demonstrate that he remained unmoved, he never turned a bair. At one party he took a gargantum draught of spirits and led the guests on a conga round the house. But this was just lightheartedness. When it was over he summoned up the control again and there he was, Dr. Fuchs, head of the department of theoretical physics, poised and in command, equally ready to drive the guests home or launch into a discussion of isotopes. There were great stories of his drinking prowess. At a celebration in Los Alamos it was Dr. Fuchs who, having filled his own glass all evening, finally put the barman to bed, He was not a drunkard. Nobody suggested that. But he was a mighty drinker when he chose.

The one thing that sent him into rages was inefficiency. There was, for the doctor, a right way of doing things and to

the rest will be read the said of the said This suit is placed to play and lattice, dismands life, and, in the end, to politics. In his emergeration at some muddle he world relative ! It had be to and he windly did corresely seed) We group of people and to be delete to the enlang station of some inpublishes he did not shock mjoy the spectitele of their stinding shots politely said douberstially sairing themistrarium liverilise which car divide to caber and how they thought say They was understanty and landicine. Public advision firmly to his com car. Count but Boar both and but FR'dave you to you que out in the wales of a de los see D Pitche was he' erfatte bat' delver. 186 adoes aprint; ber sucher the richs strending on speed not the speed tuck. Char of his Biendi teculle drilling thouse with hint one highe through a drenching storm when the car skided tudy. Packs pulled back out to obertains add of the road again. "I love this said. "They give you the opportunity of counciling shate." 11 34 Third no hobbies and work to begular wante were since when he played chess and very becidentily with When his house came so be packed up after his arrest, it we friend that besides the standard works the physics he had t wide and hapharard collection of books tanging flow Alle in Wonderland, La Fontaine's Rubles, Wella's Outline of Money, to popular novels, religious exicu, and Kravchenko's I Chair Freedom (He gave I Chose Preedom as a Christmas present the several people one year.) But he was not a reader outside his own studies. Most of these books were given him by friends. He himself wrote innumerable reports but never a book.

"Once he bought a violin and taught himself to play. But in recent years he put it away and few of his friends knew that he possessed it. Apart from this slight interest in music he cared nothing at all for the arm. He was the great unimpressionable. On sightseeing tours his friends would implore him. But you must look at it, Klaus, It's one of the most beautiful pictures (or sculptures or buildings) in the world and you will probably never have a chance of seeing it again. He remained unmoved, not lumpish or cypical, but despected and unitary present.

He would go to the money as everybody cles did at likes, well, but it was impossible to obtain any real reaction from him after the show. He had liked it. He liked them all, manual

In the society of women he related. He was the kend of mage who needs women and that need naturally evoked a responsible from his student days convands there was always some woman, with whom he was intimate, with whom he would be skeened talk as he seldom did in the company of men. He was not gay but he was devoted. And on the woman's side there was usually a motherly denire to comfort this success and introspective man, to draw him out, to nitrospe him and give him a haven from his endies searching.

He was not an untidy man, either in his clockes or in the way he ran his home; but there were days when he did not shaw and his dark blue beard sproused in an ugly mat through his pale skin. But in all else he was a precise man. He was the sort of man who can look through a railway timetable in a moment and make clear and exact arrangements for a render-vous—and he was never late. He was the chairman of a civil servant committee at Harwell—a committee which settled the domestic affairs of the community, dealing with complaints and deciding who should approach the authorities over the drainage and the water rates and so on—and he was a balanced and excellent chairman.

He was almost a fanatic about socurity. He was the one who at declassification conferences, was often opposed to the sclease of information to the public. He was for ever going to the security officer to give him his keys for safe-keeping, and he was mericulous in the matters of locking up his documents and of guarding his speech among non-official people. No one ever accused Klaus Fuchs of careless talk; his was the type of bureaucratic mind which is always on the safe side,

deflect the particular of the fact the second point of the regarder of the official word. We fir as possible to tited diffice to be either black or white, and a genial compression was, to him, always a mistake. He never mastered the art of talking easily as strongers. He had a sense of himour but he lacked warmsh. He are upstringly, office withour appetite, and he was excited give in nothing enterpy those endless rightenic and the accordenal above boun of drinking.

One of the staff at Harwell with a fact for claiment, Passell Science of the staff at Harwell with a fact at a color of the color of the staff at the color of the staff at the color of th

There used no be a game in England—the cort of game that is played at a Christmas party—in which someone thinks of the name of a man and the rest of the party has to identify him by asking "What sort of music does he resemble? If he were architecture what period would he be? What pulsating does he remind you of?" and so on.

In his own mind, perhaps, Fuchs thought of hissacif as Sidney Smith thought of heaven—'Eating caviare so the sound of trumpets'. But to his friends he was Gothic, his music was Handel, and in painting he reminded them of the mystical bright colours of El Greco.

He was not a mean man. He paid his father's expenses on a trip to America, and, at the time of his arrest, he was arranging for his dead sister's child to be brought from Germany to school in England. He took great trouble in finding a untable school; arrangements were made for the boy so live in Fuchs's house at Harwell and Fuchs was to pay all the expenses.

In the late nineteen-forties a spot developed on his long, and he handled this illness in a curious way. There were nines

when he poleced language and proving related his language which is going on with his mark and in accompanies his language then could indust him to see a deeper and you at he is language his friends recally a deiver along the Rippers during their straighter straigh

Then on other occasions he would give many and manufactured with his face turned to the well, caring hear to mothing saying nothing, reading nothing, abandoning himself to a transport physical grief. Then nothing could be done with him. He lay there hour after hour without speaking or making any sign. Sometimes these morbid fits went far beyond anything created by his illness, for that was adequately looked after by a doctor and he has been cured. Once one of his women friends went to him and said; Look, Klaus, why don't you get up? There is no need for you as easy in hed. You are not really ill any longer.

He turned sound and answered in a normal voice, "All right.
I'll get up if you think so." Then he calmly dressed himself and went out to his office to work and himself and went out to his office to work and himself.

This queerness was by no means a regular thing with him—is is remembered because it was exceptional. But those friends who had known him best over a long period noted something the which they regard as much more interesting. This was the great change that came over Fuchs at Harwell, in his early student days in the English universities he had been oblivious of what was going on around him, of the little ordinary things of hie. He was not gauche or unwilling, but it would simply never occur to him that he might open a door for a woman, of give a present on a birthday or make a gesture of any

The best of the second of the

Consequently there were proplets distribly with grown and like Bushishney much indeed. He was their impact of the same their states a helling distributed of a made the had mant to England distributed by the had mant to England distributed by the National Parameters are a speak the language, a refuge, from the National Parameters are a large to a speak the language, a refuge, from the National Parameters are also properly the secondary in the police in the secondary in the secondary of the police in the secondary of the police in the secondary of the secondary o

He was one of the first to arrive at Harnell in analysis, it was nothing much more than a bleak encampount on he descreed airfield. He had seen it grow up from next to nothing and he had helped in all the planning. If there, was goe thing about Fuchs that was entirely apparent it, was his dryppings and

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the busing plateach of an inflating operation of this work impediate the busing plateach of an inflating operation of this work impediate and a few forth of the operation of the work in the country for the state of the operation of the country for the state of the operation of the country for the operation of the country of the operation operation of the operation of the operation of the operation operatio

The first length white model flighting. We have a continued to the wint in the white circled Albert Diana stary is the make the property ing either to their highest started above the was bland in the property in the property of the Parallett starte, for reduce Diana May make they make the their the Parallett startes the start people and shapeath short is their Petels well interest the transport which is in the limit to the parallette and the property which is in the startes of the transport which is the transport of the transpo

Carter description at most production and and an arrival and an arrival and an arrival and an arrival and arrival arrival and arrival and arrival and arrival and arrival and arrival arrival and arrival tile and one if yourse distance report his antineers Andrew to the war not which the the same and the Been sered a liver sent lentily and they level in cultor row And the control of the property of the propert Property of the land of the party of the par the or himse had the Manager of the Company of the company what and to and what there is the Present summ goes under house mentioner the consumers might be a least not publicant and an account of the control of the second of the control of the was the stopped in the party of the party of the state men remained the training and a first selection of honorous From said balan file and the line with the ball order was were the the property of the second of the second of the second of the second of tract of account mint furnished in bushind and America, the become a Court, as were product on as a promise ofto south the reduce the continued of the continued to the co

One of the things that must be put down against the Nazis ist that they probably did more towards the corruption of Klaus Fuchs's mind than anything the Communists over achieved. They ruined the Fuchs family just as effectively as some contagious plague might have done. They put the father into prison after the mother had committed suicide. They drove the eldest son and the younger daughter into exile and they caused another daughter to throw herself out of an under-it ground train in Berlin. Finally, having set their brownshirts on to Klaus, the youngest boy, they forced him too into hiding and converted him into a bitter and hardened Communist.

The Fuchses were not Jews and in the beginning they were not Communist, so they were not natural targets of the Nazis. They were a Protestant family and they lived in rather poor but respectable circumstances in the industrial west of Germany. Dr. Emil Fuchs, the father, was a Lutheran pastor of immense religious faith, and he brought up his family in the belief that they must always do what they felt to be right whatever the consequences might be. It was not sufficient merely to know what was right; you had to act upon it. This was the centre of his creed, a positive and active Christianity supported by the love of God and a firm belief that every man knew within himself what was right and what was wrong, it carried him superbly through afflictions which are still unheard of among most families in England and America. He became a Quaker, an active pacifist, and as a member of a

The replacements are in long back Right William to less believe that a congroup-known as this Religious Southing the was the last Lutheran partor to join the Sarial Democratic Presy after the Birt World War widness work for over matter a green should in Die Fricht enjoyed faity years of life in a fairly actual and settled countries in Germany before the 1984 mer broke out and in that time did faith become arong : What he could sport former was the effect of his seachings types children adap never loans his stibility in sheir daily lives, who were bond and because in the cold their afterments, when all the old Whites and loyalists were breaking up around them. Life for them became a francis struggle for mintence before they had fairly get their roots into the ground. The love of God was not so apparent to them as it was to Dr. Fuchs, and come quently there was a great danger in his muching; for there was always the possibility that his children would absorb one past of it and forger the resis that they would lose their faith in God and yet will believe in their absolute right and their duty to take decisions into their own hands, so act as they them selves thought best. This was a dangerous proposition a demand for positive individual action which was not hand at faith but on personal judgment, and it is precisely what destroyed the youngest son. It is well contained that its group state he Klaus was born in the village of Russelsheim, and fac front

Darmstadt and Frankfurt-am-Main, on an Documber 1922, and he was christened Emil Julius Klaus. His first memorial were of life in provincial rowns in the industrial belt when his father travelled from one poor parish to another. He was son young to remember that he had been happy enough as ichool, and more particularly he remembered his first act of public defiance soon after the First World War was own. This happened one day when there was a celebration for that Weimar Republic which had succeeded the Kaiser's Government. Not all Germans by any means were ready to accept their defeat and the same compromise of a Socialist republic. They were willing to erect the Weimar flags on the public.

buildings, but in privacy they had tother more. The thes went up on Khoe's school building but once the pupils got inside many of them took off their republican badges and put up the Imperial colours instead. At home, no doubt, Klaus had heard a great deal about his father's fervent hopes for the new constitution. So he stuck to his Weimer colours and the other pupils tone them off him. That was his faut outracism; his first effort at doing what he thought right no manes what the consequences might be. It seems possible that there could have been other incidents as well, for his father's pacifism could hardly have been popular in that atmosphere and it was still something of a scandal for a pastor to have openly joined a political party in the fit in the soul to be combined to store out to be

In 1925, when Klaus was thirteen, his father joined the Society of Friends, and the background of these schoolds ye is that of a poor, pious, and strictly Quakerish home. t has it to

Klaus then moved on to the university at Leipzig, and was gathered at once into those tortuous and futile undergraduate intrigues which bedevilled university life all over Germany at that time, and never ceased or made sense until he left the country for good in 1933. Even in the French and Italian universities in the nineteen-twenties there was no real parallel for these political upheavals among the German students, and certainly nothing approaching their violence occurred in England and America. Probably there was nobody in Europe less qualified than the German undergraduates to lay down political rules for themselves or anybody else, and in the absence of any real knowledge of government their half-digested philosophy flew into direct action. They operated in a political vacuum where nothing was established, neither the new Russian Communism nor the new democracy nor the old monarchical ideas of the West, and as yet mobody had foreseen that all these politics were going to be demolished by something quite new and horrible in the world, the doctrine of Fincisms. However, for the time being this was a grand field

"africantian for a hop like Kless Paths, with his natural: missionary desire to convert and to maters under out of chaos. and he plunged into the struggle with endurisms. * ...

i. First, like his father, he joined the Social Democrate As a pacifies he did not approve of the pasty's place for the schulding of the Renzeeksenzer, but he much perfected the Social Democrats to the Community who did not even bother to think for chanselves they simply seek the perty lines To an individualite like Puchs this out and impossible. He and he alone was responsible for his duties

Next, according to his lower sleep of his fish he had to act; and so he jeined the Bell were already a constraint of his periform for banner was a comincilizary anadime the democrats in case of windows the way his his father's philosophy, the first spans in the last that was going to take him sinher him links

In 1931, when Fuchs was charge professorship of religious science del she Brache College at Kiel, and the whole family a Prior to this they had been living at Blue town in the Thuringian Blaces, and non-their in were somewhat improved. Fuche antiqued a degree in physics and mathematics, and at many all with the political lines he had left behind at Laborie. I a good deal smaller than Leipzig, he was more and undergraduate politics, and he began to strike out for ! He made his first decisive move to the left when he to a new organization which was comprised partly of Socials. Democrats and partly of Communits, and he became chairman of it. This was an unwholesome group on any count. In the first place no genuine Social Democrat could have joined it, for it was the persistent policy of the Communist Party to attack the Social Democrats. The Communists loudly proclaimed the united front of the left against the Nazis and the

right wing, but this did not prevent than from decrying third. Social Democratic as too spineloss and inactive, not from uponing to undermine them in every ways the in every others country, the long-range object of the Communistic was, of course, to destroy the Liberals as well as the right wing, but that was something which Klaus Fuchs and his friends would not see clearly for many years to counte, and his friends would not see clearly for many years to counte, and his friends.

There was one other reason why the new Social Demberasit Communist group was unwholesome and that was became its had a secret and treacherous objects. It sought to infiltrate this Nazi Party, to gain the confidence of Mazi members by drawing them into illegal adventures, and then double-cross thems by exposing them at the last minate. As chairman of the group, Fuchs soon found an admirable occasion for a managurent of this kind. The Nazis were agitating for a reduction of their university fees. Very well, Fuchs proposed to them, let us! jointly organize a strike of the students. The Nazis were at little taken aback at this, but they were ready to discuss the matter. Fuchs waited until the negotiations were well advanced! and then, without warning the Nazis, he issued a public3 pamphlet making it clear just what had been going on. As at method of making enemies it would be hard to find an inserprovement on this; and indeed the Nazis did not forget: De

Long after, Fuchs said he had some repinings. It had not been necessary to issue that pamphlet, he reflected. He had violated some standard of decent behaviour by doing in and for a long time he could not straighten out the incident in his mind to his own satisfaction. Finally he accomplished this by saying that in a struggle of this kind any such regrets were simply weakness.

Meanwhile he was rapidly moving further to the left. He was already regarded as unreliable by the Social Democratifier his friendship with the Communists over the pamphletinaffair, and then the series of Reichtrag elections beginning in June 1913 gave him the opportunity of going the whole way.

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Democrate in Principal Fuchs singuition, was shot, you could
have stop Hisler by combining with the right: The only sum;
we do it was through a satish deathing dise passy; and upon
this he finally broke with the final Democrate. Me affected
his self as a speaker for the Computational the election and the Social Democrate supplies the Social Democrate supplies the Social Democrate supplies the Social Democrate supplies the selection of the second state of the Social Democrate supplies the second state of the Social Democrate supplies the second state of the Social Democrate supplies the second second state of the Social Democrate supplies the second sec

When Hinderiburg two elected, and Von Papen, as Reich Chancelles dismissed the democratic Princip. Government is was all too painfully clear to Euchs that he had been night. The Social Democratic was anothered and finished. They did not even have the attength to fight for the dying Papentan Governments all they did was to after the matter to the Reich Central Courte. The only place for him now was with the fully blooded, fighting Communists scarce adversed statute of them.

It did not occur to him that he and the Communists had played their past in destroying the Social Democrats and the last remaining hope of liberal democracy in Germany. Nor does he seem to have realized that by this time the Communist. Parry was committed to the deliberate policy of letting Hiclor take power so that he could hang himself in the process, and in the resulting chaos the Communists themselves would sweep in and demolish all other parties, right, left, and centre. They turned out to he wrong about that, of course, but wrong or right Fuchs appears to have known nothing of it.

democrat of Christian principles and a firm believer in the first-dom of the individual he had developed into a militant Communist, an acheist who had handed over his free will to the party; and he convinced himself that it had all happened logically, step by step, the whole way, to the individual way.

Name he had remined when he believed to be a fine-politically term, the petited the Communities establishe and the most of the wine place of andminus for the ends interpretable restary. Noting that called the same are all implicit, and instantifying terminal extension the characters are an interpretable and instantifying terminal extension the characters.

The ten beneary 1945 bittless bearings Reight Chancelle translation of the winds in Kind Sale training quency his gradeted with their methods to train to train to their methods of the Sale training of the Sale training training their descriptions and the sale training their sale training training training the sale training trai

The state was one thing model to confirm being in his Common in our that. How he had splicted for the result Since was on he was prepared to accept the pasty had solven our in night he—the situation was too critical his country countries homey of any qualitator should.

All ther followed beloed so confirm the ideas obtain financial for and lanz. Not a single party would against the terms which were glood so Bilder by the unit thereby and in the universities there was handly anyhody subsected up for those who were dismined either on policies or said grounds; and again you found this people whom you assumely would have suspected because of their demonstration as force in themselves to stand up for their own indeed as several standards.

he other words the time of half-mounter had gone. The hape was on. You either mood up to the Nazie or you week demoyed and all cause now had become either black the whose. There were no half-tones in between; you had to he willow a Nazie or a Communist.

Very early on the mostling of all Pebruary 1933; Puche gas

of the Baiding find and I buig and the There are many to the party of redrimenti inter the inhole would. Armitale of Gramma wage killed) corested, put into most ex fluid abrone the bonders. In this she Puche family to along with reservithen & leave reacher him wicide the previous year has the ellimin was will the trenctionely holding on his Socialise sistens. They put him prison for enveral months before her was becooks before a Beople's Countrille stood up; unsipentur, hefore the judges declaring that nothing would make him shar his vients as prevent him from speaking oposty about what he believed to be right. In these early days the Nazis were not yet perpured to obliterate a well-known minister, and there was still a certain respect for the Quekors. There had been an outery at Dr. Fuchs's imprisonment, and one of the influential Quality from England was in cours. Dr. Fuchs was released and the Gestapo contented themselves by kneping an eye on him from then onwards. At the same time they noted in sheir books at Kiel that Klaus Fuchs, the doctor's youngest son, was a Gome munist Party member, that he had escaped arrest, and that his present whereahouts were unknown. I was an include a stories

The other three children-Gerhards, the eldest backer, and

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64

the two pick Crieck and Elimberhil had also gotte then Community sympachics by this time, Occhards managed to avoid arrest and for a time lie and his father this a card business for genting unti-blant refugues cost of this country. Eventually Gerhards escaped to Swinnished where he obe trained treatment for his tubercolar historion. Eleber variance to got to America later, and they settled down with her lime band at Cambridge, Messathuetta, Blimbeth had the parest tragic fate of all. She was an artist, and the married a Commaint sympathing named Kittowiki They had out shild; son. The family was arrested and put into galante Pross prists Elizabeth managed to bely in organizing her hutband's escape to Carchoslovalis. For manths she heard meching from allow but she herself and the baby were released from prison and they got word through underground channels that he was in Prague. The serain of this separation and the danger in subint they were all living began to unhinge Elizabeth's minds When the Munich Treaty was signed, and in March 1939 the Nazis marched into Prague, she became frantic with grief and worry Her father was travelling with hen one day in the Beslin underground. He held her hand, knowing that she might do something desperate since she was convinced that her husband had been caught in Prague and tortured by the Natio He had go her hand for a moment while he mok the train tickets out of his pocket, and in that instant she throw herself out on to the crack and was killed to the first a generality to an add state

The fate of Klam had been a good deal essier. The Gestapo never found him in Berlin when he arrived there in Pebruary 1933. He attended the attudents' conference which was held sumprisionally and received much praise for his work at Kiel. He was advised then by the party to make his way out of the country so that he could complete his studies abroad and then reman one day and help in the building of the new Germany when Hitler's régime had collapsed. As a first stop he was a Kiessand in first was asser eaught by the German, and is still alive.

He cold that imprignation officer that he had some to Prejund to mady physics at the Britani Linivarity, and he gots will be reference the name of the Quakes family in Someon, saying that they were friends of his father. He was arginared on the official records of the Aliens Bounds of the Hems Office and sufficiel records of the Aliens Bounds of the Hems Office and sufficielly stream of refingers was subring at this sine, and he was girth leave to lend. Fuchs said training about his Communist connections to the immigration officer. He were at once to his Quaker friends in Someons and seminal with them for the next two years.

Already in 1933, when he was still only twenty-one, Klass Fuchs was an interesting study in loyakies—especially for those who had been brought up in secure homes in the Women democracies, and who had no real conception of what had been going on in Germany. Already he had hetrayed—perhaps that was two strong a word for it—he had shandoned not one, but several causes. He had walked out on the Social Democratic Party. He had turned his back on both his pacifism and his Christianity. And now he was about to adopt an entirely new nationality. It would have been difficult for anyone to

were going to remain. He had been substituted in frightlish expendences - his theher more had now economical too too looks by the Nazie and they had represented intall bits. For his Sidney who had committed in Germany had live shorty would be left there also so being as the fire old child of his deed danabare, the bester were selven a for Dr. Puche had his faith in God and that was shirthern "I'The spring and summer of 1999. DayFactor weller good so look upon. But my children went material but life! week broken My friends were in deserter water had find others had been limproved; many had been killed theil second me was the money of what I know was the power of description and injustice. I haved the beauty of their spring and I fled the right of families and the sounds of music. Hiding in terroes behind sparkling life made that some doubly omel. But then tame the experience of Christ's presence and it became stronger and stronger into my being, of miles payment

kins Puchs had none of this faith to hear him up. He was hungry, threadbare, and bitter. It was probably out of nothing more or less than a natural instinct for self-preservation that he turned towards the only two things that had stry appearance of solidity in his life. One was his study of physics and the other was Communists.

there has been expected and will income an apply the formal applying the control of the control

property agely. The Companies Tour was as will been smoon the printed and maker profit contribut for the were an admirable appropries from which to come well man here for the purry Country Communities gave them a with their hower, and theer was always the prospect that through Commitment they would receive the Germann on Littler was pursed, in Ringboard, Prants, and all the Woods democracies new cells of refuges Communists wars seems They profind by the propert low-wing bhordier and anti-Precion of the West, especially on the authorit of the form civil was. They became active in all assume organizations, it charitable and religious aroups, in working the movemen and in the aniversities. Such societies as these was shown points of acavitation for every homeloss actours so more as l arrived , there he could find friends, financial help, and people who could speak his own language, and the Communicate once set about drawing him into the party. With the law consing pressure on the Jews in Germany and with the fall of Austria and Crechoslovskia, the flow of these refuses continued steadily, and givery refugee was an least a prosperity Communist, Johns with the 188 from the B to be fellen as

The Name were yeary well aways of all this. Their ambusing

(49)

and consulates abroad were supplied by the Gestapo with lists of Germans who had escaped, and they never ceased warning the democracies against these dangerous reds. At times

they demanded their extradition.

In November 1934 the German Consul at Bristol reported unofficially to the Chief Constable of the city that Klaus Fuchs was a Communist. This piece of gratuitous information was hardly likely to make any great stir in the Chief Constable's office. In the first place the German Consul was the representative of the Nazi Government; and secondly he admitted that the source of his information was a Gestapo report from Kiel (and it is worth while remembering that already in the early thirties the Gestapo was regarded with a horror which has hardly been eclipsed by the Russian secret police, even yet). In any case it was not illegal for a man to be a Communist in England; it was indeed a guarantee that he was not a Nazi. Moreover, there were no means of checking Fuchs's past record except from the Germans themselves, and they were scarcely unprejudiced-automatically they branded a man as a Jew or a criminal or a red or all three if he dared to escape from the Fatherland.

This report from the German Consul in Bristol in 1934 was the only definite evidence of Fuchs's Communism that was ever presented right up to the time of his confession and arrest. It was known, of course, among his friends that he had left-wing views; he never made any secret of it at Bristol. He associated with other German refugees who were known to be strongly anti-Nazi. But he never committed any public act which indicated his allegiance to Communism. He never joined the British Communist Party. He never told the police or any official body, now or later, that he was a Communist. And he never took an active part in any Communist meeting or demonstration, unless you count the fact that he was on the committee of a Spanish Relief organization which was largely concerned with assisting Spanish refugees.

In forwarding the Gestapo report to his authorities in London, the Chief Constable commented that Fuchs was not known to have taken part in any Communist activities in Bristol, nor had he in any way come to the unfavourable motice of the police. As an alien whose permit to stay and work in England had to be extended from time to time, Fuchs was checked on three separate occasions by the Bristol police

among Fuchs's friends and neighbours they would have turned the police cared to inquire manong Fuchs's friends and neighbours they would have turned the private that privately he held strong left-wing views—which was nothing more than they might have suspected already. The Quaker family with which he stayed used to make Intourist trips to Russia and were, at that time, enthusiastic about what they saw there. But friends and neighbours were hardly likely to volunteer much information of the boy's political background in Germany, even if they knew anything about it. In any case they were scores, even hundreds, in of Fuchses running round England in the ainteen-thirties, and approvided they did not break the peace or openly make a nuisance of themselves the police had neither the means nor bothe desire to pry into their private lives. Its live of the colors of themselves the police had neither the means nor bothe desire to pry into their private lives.

Fuchs, in fact, was living a very quiet life indeed. In was at though his recent experiences in Germany had exhausted behim and drained him of all desire for action. The second of the next six years in England is one of uneventful and continuous work in the universities while that excellent brain took hold so of its subject to the exclusion of almost everything else.

For the first year he stayed in the country with his Quaker if friends, eating very little, learning English, reading his books, is seeing very few people, and he was a shy and mobtrusive visitor in the house. Those who knew him then describe him there are exceptionally gentle young man. He would never have it hurt a fly. And he was graneful for what was being done for it him. Soon after his arrival he was taken down to the Univer-

. 71

sity of Bristol, and there he met Professor Nevill Mott of the physics department, who spoke fluent German. Mott heard the story of how Fuchs had all but completed his degree in physics in Kiel when he was forced to go into hiding, and it was arranged that he should attend the Bristol University free of charge. In addition to this, Fuchs was helped by the Academic Assistance Council and the Society for the Protection of Science and Learning. In October 1934 (when the German Consul no doubt got to hear about him) he entered the University as Mott's first research student. About the same time his Quaker friends moved into the city and Fuchs moved with them. Later, when a little money reached him through the charitable institutions, he moved into rooms of his own in the suburb of Redland.

The physical laboratories of Bristol University have had fewstudents of the ability of Klaus Fuchs. He worked with a persistent, methodical concentration, and there was very little in his life but his work. In 1937 he was awarded his Doctorate of Philosophy in mathematical physics; and at the same time he was given a research scholarship to continue his studies under Professor Max Born at Edinburgh. It was not a particularly good scholarship, for Fuchs was still an alien and quite unknown. Professor Mott says now that he possibly underrated Fuchs's abilities at the time, but his later success in physics was certainly not apparent then. However, he did well at Edinburgh. He began to contribute accounts of his original research to the scientific journals, he wrote a thesis On Some Problems of Condensation Quantum Dynamics and Stability of Nuclei', and within two years got his Doctorate of Science in theoretical physics. In 1939, on taking this degree, he was awarded a Carnegie Research Scholarship and be continued to work at Edinburgh.

Meanwhile, through these years, Fuchs was treating himself to a thoroughgoing study of the philosophy of Karl Marx in the privacy of his bedroom at home. He described this later in his confession: 'The idea which gripped me most was the belief that in the past man has been unable to understand his own history and the forces which lead to the further development of human society; that now, for the first time, man understands the historical forces and he is able to control them, and that therefore for the first time he will be really free. I carried this idea over into the personal sphere and believed that I could understand myself and that I could make myself into what I should be.'

The method was pythagorean and the object messianic: the approach to glory by numbers. In Germany events had happened so rapidly and so violently, the struggle had been so immediate and so personal. But here was the philosophy behind it, the explanation and the justification: the indication of the way ahead. Das Kapital captivated him, just as it was captivating so many others in the universities just then. But Fuchs's faith was doubly strong, for he had already fought for the cause in Germany and, having been brought up in the habit of religion and having abandoned Christianity, he was desperately in need of something to replace it.

All this he wrestled with quite alone. He never tried to convert anybody else; indeed, in a political conversation he tended to retreat more and more into the private certainties of his own mind and keep silent. Equally there is no ground for believing that all through these six years he was in England he was acting as an agent for either the German or the Russian. Communists. To a great extent he lost touch with Germany. He corresponded innocuously from time to time with his father (who was not a Communist), but most of his old Communist acquaintances inside Germany were either dead, imprisoned, or in hiding. He himself went abroad only once on a visit to his brother, who by now had escaped to Switzerland. He saw his sister Kristel once very briefly when she passed through ngland on her way from Germany to the United States in 936. In any case, at the time of Fuchs's escape from

Germany in 1933 it was not the established practice of the Russian Intelligence Service to employ non-party members abroad—this came later. Fuchs, moreover, was still not in possession of secret information; up to 1939 there was a free—even an eager—interchange of information on nuclear physics throughout the world.

As for the effect of England itself and the life of a democracy upon Fuchs, it is impossible to say very much. As the years went by he did tend to become less political in his conversation and more engrossed in his work. It has been suggested by one of the scientists who knew him well that Communism was for Fuchs a kind of Sunday observance. The faith was always there in the background, but he had only a certain amount of time to give to it. Like a business man who is involved in his affairs all the week, he kept his religion in a separate compartment of his mind, and for the most part it did not impinge on his work in the laboratory. He never felt strongly enough to enlist in the International Brigade in Spain, and it may have been that by the outbreak of war in 1939 there was a certain weakening of his Communism. Certainly, he confessed later, he received a jolt when Molotov and Ribbentrop signed the Russo-German Pact. Up to that time he automatically accepted that most of the things you heard about Soviet Russia were deliberate lies. But here was a solid, avowed, and indigestible fact: the Russians had gone over to the Nazis, the people he most loathed in all the world. However, he explained this away by reassuring himself that Russia had signed the pact simply to gain time so that she could expand her influence against Germany in the Balkans. And then, when finally Hitler did attack Russia in 1941, he observed with delight that it was precisely so.

For a time also he found Russia's attack on Finland in 1940 an even more difficult pill to swallow. But this too was susceptible to logic, once one worked it out: Russia was simply preparing her defences against all imperialistic Powers. Had

not France and England themselves been thinking of invading

He succeeded then in resolving his doubts, but at least he did have doubts, and that was a considerable improvement upon his earlier attitude when he accepted the party line without question. He was beginning to think again for himself. His six years in England had gone a long way towards restoring his self-confidence and his sense of security. But the trouble with Fuchs was that he never knew when to stop. His self-confidence developed into arrogance—not an outward arrogance that required public display, but the inward and convinced arrogance of a genuinely introspective mind that never comes out into the open and submits itself to criticism. He fought his campaigns for the bealth, wealth, and happiness of mankind within the confines of his own skull.

However, in 1939 it was not beyond the bounds of possibility that, given a little more time in the safe seclusion of Edinburgh, he might have become a little clearer still on the subject of Russian Communism. Certainly he was beginning to accept the English way of life. He was now twenty-aeven. He spoke English with a German accent but fluently, and he had made English and Scottish friends. On July 17th he applied for British naturalization.

On the face of is there was no reason why he should not have been naturalized then. He was supported by the Quakers and the universities. For six years he had been a loyal citizen, and his post-graduate work in the British laboratories had been remarkably good. But by July it was too late. The war began before his application could go forward, and from September 1939 all such naturalizations of enemy aliens were, for the time being, put aside. This was a piry, for, as an enemy alien, he was now submitted to an experience which may well have shaken his faith in democracy if he ever had any such faith.

1. On a November 1939, when the country had already been at war with Germany for two months, Fuchs was summoned

before the Aliens Tribunal at Edinburgh. He had been classified by the Home Office as a refugee from Nazi oppression, and there was now an investigation into his record.

When Fuchs was finally arrested after the war it was asserted that he declared himself to be a Communist before this tribunal, and consequently the authorities should have been on their guard from that moment forward. But this was not so. Fuchs made no such admission. All the tribunal had before it was a letter from Professor Max Born of Edinburgh University saying that Fuchs had been a member of the Social Democratic Parry in Germany between 1930 and 1932. And, in view of his excellent record in Britain, the tribunal exempted him from the special restrictions which were then applicable to enemy aliens. He had to report to the police, but that was all. Fuchs went back to his work at the university.

This was the cold-war period when there was as yet no bombing of civilian rowns and no real activity on the western front. But with Hitler's attack on France and the Low Countries in the following summer this picture altered entirely. Britain was now faced with an acute national emergency and the prospect of invasion. There were obvious reasons for keeping the closest check upon all German nationals. Quite apart from the question of their loyalty—and there was no time to investigate it then—refugees from Germany were likely to be one of the first targets of the Gestapo if Britain were to be invaded. In addition, the food shortage was starting, and no adequate staff or accommodation was available for the internect. There was, therefore, an urgent need to get them out of the country. Fuchs was interned under the General Order of May 1940.

He was sent first to the Isle of Man in the Irish Sea, and then transported across the Atlantic to the Sherbrooke camp near Quebec, in Canada. All this was done in a state of some haue and confusion, for the country was more concerned with fighting for its own existence at the time, Without doubt

nome of the internees were compelled to live under harsh conditions during the early stages of the evacuation. In Fuchs's case he was bundled unceremoniously aboard a ship where some of the prisoners felt they were treated more as criminals than ordinary human beings. He at least was luckier than those aboard another internee ship, the Arandors Star, which was torpedoed in 1940 by a German U-boar and sank.

Some of the indignities the enemy aliens suffered seem grotesque now, though perhaps understandable when one romembers the strains and the dangers of the time. The ship in which Fuchs crossed from Liverpool to Quebec was the Ettrick, and the journey took a fortnight. A strict discipline was enforced, and in his daily impection tours around the ship the captain had his presence announced by a hunting horn, so that the prisoners were warned in advance to spring to attention) The papers relating to them had been sunk in the Arandors Star, and this meant that on their arrival in Canada nobody for a time knew exactly who they were. There were a group of German elergymen on board, and, on their arrival in Canada, it was assumed that they were Nazi parachurists in disguise who had dropped on Rotterdam during the frightful raid which almost destroyed the city; and they were treated as such. They and the others were greated with jeen of 'How's Hitler?' and consment which were a good deal more thoroughgoing than that. Then, on another occasion, an honest British major assembled the prisoners before him. Most of their families had been murdered, imprisoned, or ruined by Hitler, and many of them had berely escaped the Nazis with their own lives. Consequently they were a good deal intonished when the Major declared: I'm British and I am loyal to my King. You are Germans and you think you have get to be loyal to Hitler. As long as that's clear and we understand one another we will get along together all right." On still another occasion, when the prisoners were making a protest it was a minor matter concerned with their unwillingness to

use prisoner-of-war notepaper or something of the kind—the guards turned their rifles on them.

Since men probably resent indignity more than anything else, especially indignity that is founded upon misunderstanding and injustice, it seems possible that Fuchs began to harbour a resentment against the democracies. He would hardly have been human if he had not.

The confusion still persisted in Canada after Fuchs's arrival, for there had been no time to sort out the prisoners adequately in England before their embarkation. Fuchs, now wearing a prisoner's uniform with a large coloured patch on the back, found himself in a camp which was designed to accommodate avowed and unrepentant Nazis. However, he found one friend there, and that was a man named Hans Kahle, who had also been sent to Sherbrooke by mistake. It is a matter for speculation now as to just how much Fuchs may have been affected by his internment and his meeting with this man Kahle.

Fuchs himself had no specific complaint to make later about his internment beyond saying that he realized that, at the time, Britain 'could not spare good people to look after the internees', and that being deprived of newspapers he was prevented from knowing how the British were getting on in the war and from learning more about the real character of the British people. Presumably what he meant (but did not care to say) was that up to 1940 he was not at all sure that the British were seriously determined to fight the Nazis; that was a job which ultimately the Russians would have to tackle.

At all events his internment had cut him off from his work and it is not impossible that in the idleness of camp life his turned to the other and secret passion of his life.—the study of Russian Communism—and refreshed his faith therein. Certainly Hans Kahle would have assisted him in this matter, for Kahle was a case-hardened Communist who had been through the mill from 1935 onwards, a much older man than Fuchs and highly persuasive. He was born in Berlin in 1899 and is

reported to have been an officer in the Reichswehr before he became a Communist adventurer. He was in the Soviet Union in 1935 and 1936 and subsequently commanded a formation of the Republican Army in the Spanish civil war. In Spain he was regarded as a representative of the O.G.P.U.

In 1939 Kahle came to England where he wrote a book on the civil war, and quickly fell in with well-known British Communists. He was also active in working among organizations for the relief of refugees from Germany and Spain until war broke out, when he was interned and sent to Canada.

Later he was released in order to work under Professor J. B. S. Haldane at the Admiralty in London. Throughout the war Kahle was a Communist organizer and propagandist and a member of the executive of the German Communist Party in Britain. Possibly he was still then on the staff of the O.G.P.U. Soon after the war he went to the Soviet Zone in Germany, was given an important police post, and died there in 1947.

This man was the close friend and companion of Fuchs during the six odd months they were together in Canada, at first in a camp of pronounced Nazis.

It is not suggested that Hans Kahle drew Fuchs into the Russian espionage net—Fuchs has said he did not—but it is possible that he reported to the Russians that Fuchs was a promising prospect. If he did make such a report, the Russians did nothing about it. They were not always, as we shall see, remarkably efficient. Kahle and Fuchs met only once again when they had both returned to England, at a Free German Youth organization.

Puchs got no black marks against him in camp. He was a docile prisoner. He took a normal part in the camp politica. Once he joined a protest against the appointment of the son of the former German Crown Prince as camp leader. (The young man had been studying in England when war broke out and was regarded as a Nazi sympathizer.) On another occasion he protested again when there was a report that

Jewish internees were to be exchanged for Canadian prisoners in Germany. But Fuchs was not notably obstreperous on these issues. There was, however, one other interesting fact that indicates how devious are the threads that pass through an espionage pattern, some of them leading nowhere. While in camp Fuchs used to receive papers and magazines from Israel Halperin, a professor of mathematics at Queen's University, Kingston, Ontario. Halperin, who was born of Russian parents in Canada, was closely questioned by the Canadian Royal Commission in 1946 and finally acquired. Fuchs says he never met Halperin and does not know why Halperin sent him the magazines-except that, just possibly, Halperin might have got Fuchs's name from his sister Kristel in Massachusetts. Halperin crops up again in another way in the Fuchs case, for when the Canadian police raided Halperin's home they found an address book. And in that book was the name of Fuchs. This information was available to the authorities in 1946-a good three years before Fuchs was arrested.

But a good deal too much can be made of this. Halperin's address book contained many names of men who had nothing whatever to do with espionage. The mere appearance of the name Puchs in that list in 1946-or of any other name-could not have led to an immediate suspicion. It well might have been included simply because Halperin had been asked to send magazines to Fuchs in camp. Still the connexion is there, and it remains one of the by-paths of the story that has not been satisfactorily explained.

Fuchs remained under internment in Canada for the rest of 1940 (consequently missing the worst of the air blitz on England), but his friends were working for him. Professor Bosn and other scientists who knew and valued his work pressed for his release. And by now the authorities in England had had an opportunity to check upon the men who had been so hurriedly sent away in the crisis. In January 1941 Fuchs was released. He returned at once to his research work at Edinburgh University.

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bomb and he needed anistants-more particularly an anishete who was competent to make elaborate mathematical calcultions. The difficulty was that most of the ables (linglish physic cies had by now been pressed into week on radar and other immediately essential war-time meanth, and good sica war hard to find. It was necessary so look among the enemy alient

Peierls had known Fuchs only slightly before the many that he had read some of his research papers and he know that Professor Most of Bristol, Professor Born, and others thought highly of his abilities. On his record he appeared to he precisely the man for the job, aparent with A was friendright attentiones we

... The interview took place in Dirmingham and type distribute tory. Fuchs was not told the full nature of the world-had wen simply informed that it was surgent, it was source, and is was connected with the war and he accepted the job. The problem now for Peierls was to get the appointment approved by the authorities in London I motion of the game, and the

The security services were consulted and they put forward the facts. Here was the report from the German Consul at Bristol which had to be regarded as a tainted source. Apart from this there was nothing against Fuchs; he had studied for seven years in England, he had applied for naturalization, he had been interned and then released, and now he was engaged on research into theoretical physics at Edinburgh. Apart from the fact that he was an enemy alien, at no point in this record had he given grounds for suspicion. However, it was only reasonable for the time being to put Fuchs on a low security rating—he should not be given access to more classified work than was strictly necessary. And it had to be estimated that, if he did give away information, he was more likely to give it to the Russians than the German enemy. That was security's report on Fuchs in 1941.

However, in England it is not the business of the security services to say whether or not a man shall be given a job. Their function is advisory—to put forward the known facts and interpret them. It is the responsibility of the Government department concerned to decide whether or not they shall employ the man. In this case the department concerned was the Ministry of Aircraft Production, for all work on atomic energy had recently been put under its control. The Ministry just then was engaged in producing aircraft to fight the Battle of Britain, and pronounced views were held by Mr. Churchill and his Cabinet: anyone, they argued, who was able to help Britain towards the winning of the war ought to be pressed into service, and at once. Fuchs was employed. And since it was manifestly absurd to ask him to engage in the work without telling him what it was about he was later given access to classified material in Birmingham.

He began work in May 1941, and signed the Official Secrets Act on taking up his employment. Since he was poor and alone the Peierls family found room for him in their house in Birmingham, and he continued living with them as an inti-

mate member of their household, until towards the end of his stay in England in 1943 when he moved to quarters of his own. Through all this time-a period of more than two years -he never indicated by anything he said or was observed to do that he was in touch with the Russians. The university staff and his friends were entirely without suspicion. They found him shy, rather silent and abstracted. He was quite hopeless at the business of looking after himself; unless someone in the Peierls household had sewn on his buttons, helped him buy his Christmas presents, and occasionally taken him out to social gatherings, then none of these things would have been done. He returned from his work each evening, and if nobody prevented him he simply went to his room and continued to work again halfway through the night. He was not disagreeable to live with. He liked children, he was fond of dogs, and in a mild, unworldly fashion he assisted at (in the French sense) rather than took part in the family and university gatherings. When he first arrived in Birmingham his face became paralysed with some infection, but as a rule he seemed to enjoy at least an anaemic good health. But he had bad teeth and preferred soft foods, especially eggs and puddings. He made occasional trips down to London, sometimes in connexion with his work, but otherwise seldom went outside Birmingham.

There was just one incident—it was hardly even an incident—that might have indicated to the scientists in Birmingham that they had a strange man here amongst them. It was a New Year's Eve party. They were singing Russian songs and Fuchs was observed standing a little apart from the others with a look of transcendental exaltation on his face—a look of such rapture that the woman who saw it imagined that he must suddenly have fallen in love.

Six months after Fuchs arrived in Birmingham the organization known as Tube Alloys was set up to co-ordinate the work of the atomic scientists in the different universities. It was not conducted as an ordinary Government ministry with a hierarchy of civil servants, but was a small and very socret effair with anobarusive offices in Old Queen Street, Westminster. It had a miniature staff headed by Sir Wallace Akers, of Imperial Chemical Industries, and Mr. Michael Perrin, also of I.C.I., who was brought in as his assistant. They were directly responsible to the Lord President of the Council (Sir John Anderson), and the Prime Minister, One of their duties was to act as a clearing house for information, as the work on atomic energy-progressed. The scientists engaged on the project in Oxford, Cambridge, Birmingham, and elsewhere were asked to send in monthly reports which could be disseminated among themselves so that redundancies could be avoided and the work would march forward evenly. The man who never failed in bringing in his reports on time-who never pleaded that he was too busy, or that he was occupied with an experiment which could not wait-was Klaus Fuchs. And his reports were lucid, well written, and precise. When asked to interpret them for other scientists who were not working in the same field he also had a flair for reducing their technicalities to simple effective language. The first operated and of the operate

Very soon Professor Peierls in Birmingham was delighted with the choice he had made of an assistant, and by 1942 he realized he had acquired something of inestimable value, a perfectly methodical calculating brain. More than that, Fuchs had a talent for understanding any problem that was put to him and he learned with astonishing rapidity. He could be asked to tackle any calculation and one could rely entirely upon

The work at Birmingham was mainly concerned with the gaseous diffusion process of separating the uranium isotopes, which was still in the experimental stage both in Britain and

which was still in the experimental stage both in Britain and the United States, and was only one of several alternatives then being explored. Professor Peierls was a gaseous diffusion

then being explored. Professor Peierls was a gaseous diffusion enthusiast and Fuchs, working away in his private world of

mathematics, soon became an enthusiast as well.

his 1942 Pache sgain applied for naturalization as a British subject, and he had the strong backing of the Tube Alloys directorate. Enemy aliens were only naturalized in exceptional cases during the war, and the reason given here was that Fuchs was engaged on work of national importance. He had to become a British citizen in order to be given access to certain prohibited places in connexion with his work. We then the state of the

or There was a police investigation. The eight-year-old report of the German Consul was again brought up, and it was still the only evidence against him. Puchs himself was examined at an open hearing—the British protedure is very similar to the system in the United States—and on 7 August 1942, on being naturalized, he took the following oath of allegiance:

L Emil Julius Klaus Fuchs, sweag by Almighry God that I will be faithful and bear true allegiance to His Majesty. King Goorge, the Sixth His Heirs and Successors, according to law presidents.

m. When he took that eath Fuchs was in active and regular contact with a Russian agent. He established that contact very soon after he serived in Birmingham in 1941, and it was not the Russians who had come to him the himself had approached them first and had offered to past information and productive for the first and had offered to past information and productive for the first and had offered to past information and productive for the first and had offered to past information and the first and had offered to past information and the first and had offered to past information and the first and had offered to past information and the first and the first

It was not difficult for Fuchs to get into touch with the Russians. Through the refugee organizations and the universities he knew a number of Communists who had reached England from Germany since 1933; and it was one of these who passed him on to Simon Kremer, the seaterary to the Soviet Military. Attaché in London.

Throughout his association with Kremer Frichs knew him only by the name of 'Alexander', and never discovered hid real identity. But Kremer was quite a familiar though a minor figure among diplomats and military people in London during the war. His full name was Simon Davidovich Kreiner and he was a Russian, born in Gomel in 1900. He arrived in Enguland to take up his post at the Russian Embassy two years

before the was and he was accompanied by his wife and their two small children. His job was, without doubt, merely a cover for more important activities. He left England towards the end of the war, before the Canadian spy net was discovered and long before Fuchs's arrest.

What made Fuchs suddenly decide to turn active traisor in 1941? We have his own version of the matter: 18.50 hours are

'Shortly after my release [from internment] I was eaked to help Professor Peierls in Birmingham on some war work. I accepted it and I started work without knowing at first what the work was I doubt whether it would have made any difference to my subsequent actions if I had known the nature of the work beforehand. When I learned about the purpose of the work I decided to inform Russia and I established contact through another member of the Communist Party. Since that time I have had continuous contact with persons who were completely unknown to me, except that I knew they would hand over whatever information I gave them to the Russian authorities. At this time I had complete confidence in Russian policy and I believed that the Western Allies deliberately allowed Russia and Germany to fight each other to the death; I therefore had no hesitation in giving all the information I had, even though occasionally I tried to concentrate mainly on giving information about the results of my own work, had

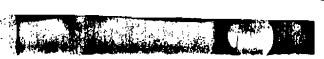
The phrase 'another member of the Communist Party,' is interesting, for it indicates that even though he had no contact with the party in England, he still regarded himself a member.

Certainly the timing was important. In June 1941 when Fuchs first began to work on the atomic bomb the Nazis attacked Russia, and then all those anxious doubts about the Russo-German Pact and the invasion of finland were swept out of Fuchs's mind. There followed through the ensuing months Stalin's persistent demand (echood by the Communist Party all over the world) for a second front -en invasion by

the Western Allies of western Europe so that the strain on Russia would be relieved. When time went on and that demand was not answered, when Moscow nearly fell, when the battle for Stalingrad was fought and the losses of the Russians were frightful, it might indeed have seemed to Klaus Fuchs that his chosen people were being left to bear the brunt. He felt an ardent burning to do something for the cause. There were many other people in England who felt the same way at the time; Mrs. Churchill was organizing her Russian Relief Committee and an intensely pro-Russian feeling spread over Britain. Workers redoubled their labour in the factories and there was great enthusiasm when the first British arms were sent off to heroic Russia on the Murimensk run. But fewer people in England had either the means or the necessary arrogance to do what Klaus Fuchs did to I unout their to this social

He took copies of his monthly reports of his work on atomic energy and gave them to Simon Kremer in London. That was his contribution to the heroes of Stalingrad and to the winning with trade on excession to be arrounded bear free of the

He had at least four motimes with Krumer in London botwoen the end of 1941 and the end of 1942. Since it was not always easy for him to get away from Birmingham during the working week-it is a train journey of several hours from Birmingham to London the meetings were fixed at the work-ends and in the evening. The first was at a private bonse to the south of Hyde Park, not far from the Russian Embassy in Kensington Palace Gardens: Here he met just one manual Russian, who spoke English and called himself. Alexander's and seemed to be familiar with this surroundings. Fuchs, va. meticulous man, may have had some doubts as to whether his contact this man Alexander your genuine, and whether the information was actually getting through to the Russians because, soon after this first meeting, he west openly to the Russian Embassy to make inquiries a thing that was labour lutely forbidden to agency and, unless they decided to waive



the rules in this case, he can hardly have been thanked by the Russians for it. However, he was reassured, for he took up his appointments with Kremer again and these were in the street; either a quiet residential road or a crowded bus stop was chosen on each occasion.

There was then, and still is, a technique of Russian spying. It is capable of infinite variation, but certain basic rules exist, such as the obvious one that forbids the spy to do anything so foolhardy as paying a visit to a Soviet consulate or embassy. Some time before the war the Russian Intelligence Service was reorganized, and spies were also forbidden to have any commexion with the local Communist Parties. These parties were still used as a recruining ground for spies, but immediately a man was chosen he was obliged to break off all association with known Communists.

Minder the new arrangements the Russians found (it much more profitable to work through traiton—ideological, foreigners like Klaus Fuchs, than through their own nationals, who tended on occasion to be arrociously heavy-handed in the unfamiliar surroundings of the West. The Russians themselves supplied the director of each net; he was usually placed in a country outside, the one his net was spying upon.

The employment of traitors also called for a new kind of dealing times few, of them, entered the service for moneys Nevertheless; it; was necessary to bind them, to make sure they would not weaken or man again; and so the Russian Intelligence. Service forced money, however anall in amount, upon their agents, and obtained receipts—which were useful for blackmailing purposes in case of necessiry.

Russian agents are trained in the double life—it was no dise covery of Fuchs's, as he appears to have imagined—and by the use of cover sames and other devices they were all kept in appearate compartments. The object here, of course, was to ensure that if a man were discovered be could give only limited information about his actual contacts. The main channels of

communication are normally through Russian embassies and legations. They in turn used diplomatic couriers who passed regularly to Moscow. Alternatively, coded messages were sent by illegal radio stations.

The meeting-places most favoured for spies and couriers were never private houses. Crowded streets and underground stations were found more private, since for the most part the contact lasted only a few minutes, just long enough to pass a document in a folded newspaper or a piece of microfilm in a cigarette:

MAS a rule spice made no signal of recognition when they mee, but moved off to another place where the information was handed over and arrangements were made for the next meeting. As a precaution a third man, unknown to the other two, sometimes stood by to make mre that the meeting was not observed. There were counted counter-capionage measures this well-constraining appearations designed to discover just what security measures were being taken by the country which was being spied upon, he storgetons a type of the country which

to All these matters are fairly communic knowledge now as a sesult of the Canadian investigations and the defections of somany Pensions and other Communication the West. But in 1942 and 2942 (when it was hardly to be expected that Russia was already implacably determined so undermine her allies) their things were far from commonplace. Fuchs had to learn the new conspiratorial sechnique from the beginning, and he showed a remarkable aptitude for it. The Russians could have had few agents as precise as he was felly usen so exact in their memory, so clear in exposition, so practical and so eager.

tion; it was no the form of carbon copies of his reporter which he had typed himself, or manuscript in his own handwritings.

All this information came from his own hand was the result of his own work. If he had other information as the time he did not give it. It seems possible there that in this

88

carly stage he may have soothed his conscience by reassuring himself that, after all, this information was his own property. He had produced it; it was his to give away where he wished. But if these reservations existed in his mind they did not last.

At the end of 1942 Alexander disappeared, and Fuchs was told that from now on he would be dealing with a new contact, a woman. In addition the place of rendezvous was changed—no doubt to suit Fuchs's convenience—from London to Banbury. Banbury is a market town some forty miles from Birmingham. The new series of meetings began there in 1942 and continued at intervals of two or three months. On each occasion Fuchs took an afternoon train down from Birmingham in the week-ends, and then walked out along a country road just outside the town. The woman waited for him there. She did not live at Banbury; she came there specially for these meetings and left by train, no doubt for London. Just once they had a rendezvous in a case opposite Snow Hill station in Birmingham.

There have been many assessments of what Fuchs may have given the Russians through 1943. Certainly in the period 1941-3 he would have been able to tell them that we now considered the uranium bomb was a definite possibility. He could have—and in fact did—give them the results of his own calculations on the theory of the gaseous diffusion process for separating the isotopes of uranium, and the fact that U235 produced in that way might be used in an atomic bomb.

He could also have furnished his own calculations of the amount of U235 needed and of the efficiency of the explosion.

Dr. Karl Cohen, of Columbia University, has commented upon the state of Fuchs's knowledge at this time in a letter to the Joint Committee on Atomic Energy in Washington. He wrote:

Fuchs' name appeared on theoretical papers on the gascous diffusion process so my certain knowledge in 1942, and I believe us early as 1941. Because of viens to this cognitive of Peierls and

others in early 1942, when the relative merits of the Birmingham and Columbia versions of the diffusion process were discussed at length, and the established (though inefficient) channels
t of Anglo-American interchange of technical information, it is
clear that before Fuchs' arrival he had good knowledge of the
American plans for the gaseous diffusion plant. It is important
to bear in mind that because of Fuchs' grasp of the theoretical
principles involved, which interrelate the process variables so that
the choice of a few determines the remainder within narrow
limits, he would be able to reconstitute our whole program from
only scattered pieces of information. Thus, even before his
arrival in New York when he obtained full and detailed information, he could have transmitted a very good outline of the
American gaseous diffusion project.

Dr. Cohen with some justice permitted himself to add: 'Compared to these consequences, Fuchs' betrayal of the personal integrity of scientists is of minor importance. Nevertheless it was a blow which all scientists bitterly resent.' This was a point that had not yet occurred to Fuchs himself in 1943, though it was going to overtake him with some force later on. Meanwhile he continued meeting his woman contact (she has never been arrested), and towards the end of 1943 he told her that he had been selected to go to the United States as a member of the British team which was to continue work on the gas diffusion process in New York.

Precise instructions were then given him by the woman for making contact again with the Russians in New York. He was to go to a street corner on the lower East Side on a Saturday carrying a tennis ball in his hand. There he would see a man carrying a book with a green binding and wearing gloves, with an additional pair of gloves in his hand. This man would be known to him as 'Raymond'. (It was actually Harry Gold, who was arrested in 1950 and is now serving a sentence of thirty years in the United States.) The two men would then take a taxi to a restaurant on lower Third Avenue.

91

where Fuchs would hand over his information and arrangements would be made for their future meetings.

In November 1943 Professor Peierls, Fuchs, and others embarked at Liverpool on the troopship Andes for the United

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EXISTENCE on £275 a year in war-time England was hardly very expensive, even for an active bachelor with a double life. Up to this point Fuchs had been a lean and hungrylooking man. The gradual change in his outward manner probably dates from this journey across the Atlantic in the troopship Andes. After his two crossings as an internee the voyage seemed a great luxury to him, and he was lively and, for him, in high spirits on board. He was travelling with friends and as a representative of the British Government (for he had been made a temporary civil servant); he was going to work that he loved and now, at the approach of his thirty-second birthday, he had an established reputation. In particular he had recently been much congratulated upon a paper on the control of a diffusion cascade which had been of considerable value to the Americans. His conspiratorial life was untroubled by any misgivings or hesitations and his conscience had arrived, no doubt, at some sort of a mystical peace with itself.

He landed with the Peierls in early December and they proceeded at once to Washington to sign the usual security undertaking with the United States Government. There was no further investigation into Fuchs's credentials—he had been cleared by the British authorities as an accredited member of the British mission, and in the ensuing two and a half years when he was in the United States no other check was made upon him.

From Washington he went to the Taft Hotel in New York. Subsequently he moved to the Barbizon-Plaza and then to an apartment of his own at 128 West 77th Street. He visited his sister Kristel at Cambridge, Massachusetts, within a few days of his arrival—she had now settled permanently with her husband and children in the United States—and he continued to keep in touch with them throughout his stay in the country. There was indeed a plan at one time for the family to come and live with him in New York, but it fell through when he was posted to Los Alamos in the following year.

Almost from the moment of his arrival in New York Fuchs was exceptionally busy. Starting on 7 December 1943 he attended a series of meetings which enabled the American and British teams to clear their ideas about the gas diffusion process with one another, and plan their future operations together. At this time the scientists working on this part of the atomic energy project were divided into two groups: those at Columbia University who were mainly engaged on research, and those at the Kellex Corporation where the large-

scale gas diffusion plant was designed.

It was soon realized that the best contribution the British could make would be to help on the theory of the control of the gaseous diffusion plant, and Fuchs was specifically asked to make numerical calculations for its design. At the conclusion of the December meetings part of the British team went home, and Peierls, Fuchs, and some others remained to cooperate with the Americans. From this time forward Fuchs was intimately connected with the work both at Columbia University and at the Kellex Corporation. He had an office at the British centre in Wall Street, and he was a frequent visitor to both laboratories. He did little else but work. It filled all his days. One can imagine that he was content, for after so much experiment and theorizing the moment of definite action was approaching. The first chain reaction had been achieved at Chicago on a December 1942. It was now to be

used to produce a nuclear explosion. The end result was still far off in a mist of conjecture, but at least they had decided upon a definite path, or rather a series of paths, to follow. Fuchs's contribution was substantial. He decided to make that contribution, and much else besides, available to the Russians. From this time forward he gave them everything he could, whether it was his own work or not. He brought the answers to their questions, he indicated the success or failure of experiments, and he furnished precise details of dimensions. No one on earth could have made an atomic bomb at that time, and Fuchs then knew little of the United States plans. But he knew nearly all there was to be known about the gas diffusion plant in the Manahtten Engineering District, and that the Russians had from him.

Throughout his stay in America he had only one contact, and that was Harry Gold, alias Raymond, the obedient little biochemist who was born in Switzerland and was a naturalized American. What he did not know was that, through Gold, he was drawn into an elaborate espionage network which had already been working in the United States for some time. Fuchs and the American traitors between them made a nonsense of the security regulations, and they revealed that all the paraphernalia of barbed wire and policemen, unless carried to a stultifying extreme, is a useless barrier in the affairs of the mind. When the atomic bomb came to be exploded not only Fuchs but an American traitor as well was standing inside the barbed wire at Los Alamos, with free access to their courier outside, Harry Gold.

Fuchs proceeded with his tennis ball to the first rendezvous with Gold on lower East Side, New York, early in the New Year, 1944. They met, they proceeded by taxi to a restaurant, and they arranged to meet again. It was Fuchs's practice from this time onward to warn Gold in advance of what he proposed to give him at their next meeting; normally it would be a package of papers which he had typed or written himself.

He was also prepared to answer questions. Gold, on his side, adopted a system by which, immediately he left Fuchs, he handed over the package to his superior in the net, the Russian vice-consul in New York, Anatoli A. Yakovlev, who would often be waiting around the corner of the next street, unknown, of course, to Fuchs. Gold then went home-he had a tortuous procedure of jumping on and off trains at the last minute to make sure he was not being followed-and wrote out a report on Fuchs's conversation. This report would be given to Yakovlev at a later, prearranged meeting. In the course of these proceedings Fuchs was once offered 1,500 dollars. He turned it down flat.

There were five meetings between Fuchs and Gold in New York, possibly more. In March 1944 they met in Madison Avenue when they were together less than a minute-just long enough for Fuchs to hand over his papers. They met again in the middle of June at Woodside, Queens, and Fuchs promised that at the next meeting he would bring information of the actual plans for the design of the uranium bomb. At the end of that same month when they met again near the Borough Hall in Brooklyn he did, in fact, deliver those plans. Gold took them quickly without waiting to join in conversation. In mid-July they were together again at 96th Street and Central Park West and on this occasion they strolled for an hour and a half through the park.

Years afterwards, when he was questioned, Fuchs could only remember that his contact Raymond was a man who did understand something of the technicalities they discussed. Possibly, he rhought, he might have been a chemist. For the most part at this time he passed over his own original manuscripts, which his office supposed he had destroyed after official copies had been made. The main value of this information was that it gave away the principles and some details of the gas diffusion production plant at Oak Ridge, Tennessee. He also indicated the scale and timing of the American programme. From his notes the Russians could have deduced the principles of one of the methods which we had chosen for separating uranium isotopes, and he could have set their speculations on Buch to Buch to the State of the that score at rest.

At the Central Park meeting they fixed the next rendezvous at the Brooklyn Museum of Art and, as an alternative—there was always an alternative at a later date in case either of them failed to keep the first appointment—they were to meet at Central Park West again.

Fuchs failed to keep either of these appointments. It was a matter of concern for the net when an agent vanished in this way for there was always the possibility that he had been arrested or had decided to cease his activities and had turned traitor to the traitors. Gold's movements then were like those: of some agitated insect that has suddenly lost its way. He waited fruitlessly at the meeting-places. He went to Fuchs's apartment in 77th Street, but the doorman there could tell him nothing except that Fuchs had gone away. It was Yakovlev who hunted up the address of Fuchs's sister, Kristel, and Gold was posted off to Cambridge to see her. Gold explained to her that he was a friend of Fuchs's and wanted to see him rather urgently. Kristel could remember only that Fuchs had gone off somewhere in the south-west'. He had promised to spend the coming Christmas with her if he could. Then, Gold said, would she ask him to telephone when he arrived? He wrote out a New York number and put it in an envelope. Then he went away to report to Yakovlev and to wait.

What had happened was that Fuchs had been sent to Los Alamos in New Mexico. Professor Peierls and his family had gone there some time before, leaving Fuchs in charge of the New York office, and now Fuchs himself was wanted to help on the work for the actual construction of the bomb. It was one of the quirks of Fuchs's pedantic mind that security should always be observed; at any rate until he chose to break it in a way and at a time of his own choosing. Los Alamos was a

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great secret. The director, Del Robert R. Oppenheimer, was assembling there a group of perhaps the most distinguished scientific minds that has ever been guthered together. Fuchs decided not to pass on this information to the Russians nor the news of his own departure. It was, for the moment, too secret.

He arrived at Los Alamos, was given a room in the bachelors' dormitory, and there began for him pethaps the happiest time of his life. Living there, high up among the pines, in the clear dry air of the desert, he began to develop a physical well-being which he can hardly have known before. On his days off he went mountain climbing. In the winter he went sking; in the simlight and the mow most people look rather. better than they normally do, but the photographs taken of Fuchs in his skiing clothes at this time show that the change was remarkable. He appears lithe and assured and goodlooking. There was much cantal entertaining among the families at Los Alamos and Fuchs frequently went out dining and dancing. He had more money and although money was never a major interest for him he knew how to spend it generously and well. Since he loved motoring Mrs. Peierls persuaded him to go down to the town of Santa Fé and buy a car-a secondhand Buick. In every way he seemed more relaxed and at ease than his friends had ever known him before.

The security regulations were not too onerous—and one feels that Fuchs would not have objected if they were. At first the military authorities had wanted to put all the scientists into uniform, give them ranks, and bring them under army discipline. At this the scientists objected, and they won their point. However, the military did succeed in ringing them round with barbed wire—there was one pass to get into the residential camp and another to visit the laboratories and offices—and the guards on the gate were punctilious. Once inside the camp conversation among the scientists and their families was free and easy, but the pass system was formidable and the

going on up there on the bare heights above. They believed, as Harry Gold expressively put it in course much later, that it was a fourt of boundoggling toutful. Still the scientists could and did go to Santa Fe and it was always possible for thing of genticless of leave.

Early in 1945, after az months of this life of ongranding work in the Besh air, Fochs were north to spend a short boliday with his sinter Kristel Heinman and her family of Panis bridge, just outside Boston, and there the strategy and asked Figure about his work at Lor Alamos: Puchs agreed to put drive all he knew in writing and this maniful was builded only and fold at a record meeting in a Boston street a few days the By now Pochs was able to reveal a great deal In his notes. he gave details of the photonium bomb (is distinct from the uranium bombilius design, the inserted of committee and the fact that the platenium was produced in around interes in Harford in the state of Washington in particular be gave description of an implosion lens (a device that explides in-wards) which was to be need in detonating that the land of the bomb. Later the Russians evenced much interest in this implosion lens; they pressed Gold to scour his stand for any furthers. details Fochs may have given him, and in the end Confinecan traition David Greenglass, who was also working at Los

Before Furthe and Gold parced in Bonon a wall that they should have a further meeting in the Virginia and the place at Santa Fer since if was unlikely that Fuchs would be able to come north again. The place of a solution be the Castillo Bridge in terms Per and the santa for the place.