

Memorandum L-115

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Division 6 - Lincoln Laboratory
Massachusetts Institute of Technology
Cambridge 39, Massachusetts

SUBJECT: A BREAKDOWN OF VISITS TO PROJECT WHIRLWIND BY EDUCATIONAL INSTITUTIONS, INDUSTRIES, AND GOVERNMENT DEPARTMENTS FROM 1 JULY 1952 TO 30 JUNE 1953.

To: Jay W. Forrester
From: Robert A. Nelson
Date: 17 August 1953

The visitors to the Digital Computer Laboratory during the last year have been tabulated in categories giving the following summary with details on the following pages.

	No. of Institutions, Companies, and Agencies or Projects	No. of		No. of Visitors
		Visits	Sub- total	
		Sub- total	Sub- total	Sub- total
I. EDUCATIONAL INSTITUTIONS				
1. NOT INCLUDING MIT	18		42	128
2. MIT	1	19	121	167
			163	295
II. FOREIGN COUNTRIES	15	15	59	68
III. INDUSTRIES				
1. AIRCRAFT	11		33	44
2. PETROLEUM	9		12	14
3. LIFE INSURANCE	1		1	1
4. BUILT OR PLANNED COM- PUTERS AND/OR INFORMA- TION HANDLING SYSTEMS	11		295	178
5. MANUFACTURE AND DE- VELOPMENT OF COMPONENTS AND EQUIPMENT WITH POS- SIBLE APPLICATION IN COMPUTERS, ELECTRONIC EQUIPMENT	33		106	141
6. RESEARCH ORGANIZATIONS AND CONSULTANTS (Not necessarily in computer or related fields.)	35		61	86

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	No. of Institutions, Companies, and Agencies or Projects	Sub- total	No. of Visits	No. of Visitors	Sub- total	Sub- total
III. INDUSTRIES (Continued)						
7. CHEMICAL, RUBBER, & GLASS COMPANIES	7		16	16		
8. OTHERS	<u>23</u>	<u>130</u>	<u>32</u>	<u>356</u>	<u>44</u>	<u>524</u>
IV. GOVERNMENT DEPARTMENTS						
1. DEPARTMENT OF DEFENSE	3		4	11		
2. DEPARTMENT OF THE ARMY	7		19	48		
3. DEPARTMENT OF THE NAVY	9		46	57		
4. DEPARTMENT OF THE AIR FORCE	12		169	286		
5. OTHERS	<u>9</u>	<u>40</u>	<u>17</u>	<u>255</u>	<u>26</u>	<u>428</u>
TOTAL OF EDUCATIONAL, FOREIGN, INDUSTRIAL AND GOVERNMENT VISITORS						1315

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	No. of Visits	No. of Visitors
<u>I. BREAKDOWN OF VISITS BY COLLEGES</u>		
California Institute of Technology	1	1
Cambridge University	1	2
University of Chicago	1	3
Columbia University	1	1
Cornell University & Aero Laboratory	3	3
Harvard & Harvard Business School	8	13
Univ. of Illinois & Control Systems Lab.	9	15
Johns Hopkins University	1	1
University of Michigan	5	5
Northeastern University	3	29
Pennsylvania State College	1	1
Princeton University	1	1
Rutgers University	1	1
Ohio State University	1	1
Stanford & Stanford Res. Inst.	2	3
Taba Inst. (Bombay)	1	1
University of Toronto	1	3
Worcester Polytechnic Institute	<u>1</u>	<u>44</u>
Total 18	42	128
<u>II. BREAKDOWN OF VISITS BY COUNTRIES</u>		
Australia	1	1
Canada	12	16

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	No. of Visits	No. of Visitors
II. <u>COUNTRIES</u> (Continued)		
China	1	1
Cuba	1	1
Denmark	1	1
France	2	2
Germany	2	2
Great Britain	19	23
India	3	3
Italy	2	3
Japan	4	4
Netherlands	5	5
Norway	2	2
Sweden	3	3
Venezuela	<u>1</u>	<u>1</u>
Total 15	59	68

III. BREAKDOWN OF VISITS BY INDUSTRIES1. AIRCRAFT INDUSTRY

Bell Aircraft	2	4
Bendix Aircraft	1	2
Boeing Aircraft	9	9
Convair	8	10
Douglas Aircraft	2	2
Fairchild Guided Missiles	1	1

	No. of Visits	No. of Visitors
1. <u>AIRCRAFT INDUSTRY</u> (Continued)		
G. L. Martin	1	3
Goodyear Air	1	1
Hughes Aircraft	6	9
Lockheed Aircraft Ser.	1	2
North American Aviation	<u>1</u>	<u>1</u>
Total 11	33	44
2. <u>PETROLEUM INDUSTRY</u>		
Atlantic Refining Company	2	2
Carter Oil Company	1	1
Continental Oil Company	1	1
Humble Oil Company	2	3
Magnolia Petroleum Company	1	1
Shell Development Company	2	3
Standard Oil Company	1	1
Texas Oil Company	1	1
Union Oil Company	<u>1</u>	<u>1</u>
Total 9	12	14
3. <u>LIFE INSURANCE COMPANIES</u>		
New England Mutual Life	<u>1</u>	<u>1</u>
Total 1	1	1

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	No. of Visits	No. of Visitors
4. <u>COMPANIES HAVING BUILT OR PLANNED</u> <u>COMPUTERS AND/OR INFORMATION</u> <u>HANDLING SYSTEMS</u>		
American Telephone and Telegraph Company	1	5
Bell Telephone Laboratories	17	42
Burroughs Adding Machine Company	11	20
Computer Research Corporation	3	3
General Electric	18	26
International Business Machines	*	*
New England Telephone and Tele- graph Company	3	10
Raytheon	18	34
Radio Corporation of America	16	25
Remington Rand	4	8
Sperry Gyroscope Company	<u>4</u>	<u>5</u>
Total 11	295	178
5. <u>MANUFACTURE AND DEVELOPMENT OF</u> <u>COMPONENTS AND EQUIPMENT WITH</u> <u>POSSIBLE APPLICATIONS IN COMPUTERS,</u> <u>ELECTRONIC EQUIPMENT</u>		
Allis-Chalmers	1	2
Armco Steel Company	1	1
Bryant Grinder	2	2
Control Instrument Company	2	3
DuMont	1	5
Electronic Assembly	1	1

* Visits and visitors from IBM are not counted because of the present special relations with them.

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	No. of Visits	No. of Visitors
5. <u>MANUFACTURERS</u> (Continued)		
Engineering Research Associates	24	24
Ferranti Electric Ltd.	3	4
Ferrite	1	1
Ferroxcube Corporation	2	4
Friden	2	2
General Radio Company	1	2
Harper Elect. Furnace	1	1
Intelelectronics, Inc.	1	1
Kemtron	1	1
Laboratory for Electronics	10	16
Magnetic Amplifiers Inc.	1	1
Magnetics Research	2	2
Marchant Research	1	1
Melpar Inc.	1	1
Philco	4	5
Phillips Res. Lab. (Netherlands)	2	2
Photoswitch	4	4
Scientific Spec. Corp.	3	4
Sprague Electric Company	10	13
Sylvania Electric	7	7
Teleregister	1	2
Texas Instrument Company	1	1
Transducer	2	5

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	No. of Visits	No. of Visitors
5. <u>MANUFACTURERS</u> (Continued)		
Transistor Products	2	2
Transistron	1	2
Union Carbide	1	2
Westinghouse	<u>9</u>	<u>17</u>
Total 33	106	141
6. <u>RESEARCH ORGANIZATIONS AND CONSULTANTS</u> (Not necessarily in computer or related fields)		
A. B. Stanley	1	1
A. D. Little	5	9
Aero-Rod Corporation	1	2
Airborne Instrument Laboratory	2	6
Argonne National Laboratory	2	2
Armour Research Foundation	3	8
Battelle Memorial Institute	2	2
Brookhaven Laboratories	2	2
California Research & Dev. Corp.	3	5
Carpenter Research	1	1
Consolidated Engineering Corp.	1	1
Cook Research Laboratory	1	1
Dunlap & Associates	1	1
Fairhill	1	2
Fisher Scientific	1	1
G. L. Cabot Inc.	1	1

	No. of Visits	No. of Visitors
6. <u>RESEARCH ORGANIZATIONS</u> (Continued)		
H. H. Sticht	1	1
Harrison Reynolds	1	1
Goodrich & MacLeod	2	2
Inter. Telemeter Corporation	1	3
J. B. Rea Co.	1	1
K. A. Dawson Co.	1	1
Leeds & Northrup Co.	1	1
The Lummus Co.	5	5
Metal & Thermot Corp.	1	1
Meteor Engineering	1	1
Morton Company	1	1
National Research Laboratory	3	6
Oak Ridge National Laboratory	1	1
Parsons Corp.	1	3
Rand Corporation	8	8
Sanders Co.	1	1
Telecomputing Corp.	1	1
W. F. Abbott Engineering Labs.	1	1
Whitcomb	<u>1</u>	<u>2</u>
Total 35	61	86
7. <u>CHEMICAL, RUBBER, & GLASS COMPANIES</u>		
Columbia Chemical	1	1
Corning Glass	2	2

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	No. of Visits	No. of Visitors
7. <u>CHEMICAL COMPANIES</u> (Continued)		
Dewey Almy Chemical	1	1
DuPont Co.	5	5
General Ceramics	5	5
Goodyear Tire & Rubber Co.	1	1
National Chemical	<u>1</u>	<u>1</u>
Total 7	16	16
8. <u>OTHERS</u>		
Allegheny Ludlum	1	1
Anaconda Wire & Cable Co.	1	1
British Joint Services Mission	1	3
Bowenville Power Adm.	4	7
Consolidated Vacuum	1	1
Continental Motors	2	4
Educational Testing Service	2	2
IL	4	4
INAC (Italy)	1	1
Int. Standard Trading Corp.	1	2
Linde Air Products	1	1
Marconi Instruments Ltd.	1	1
Ministry of Defense	1	1
Museum of Natural History	1	2
Museum of Science	1	1
NAE (Canada)	1	1

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	No. of Visits	No. of Visitors
8. <u>OTHERS (Continued)</u>		
ONR (London)	1	1
Pennsylvania Co. for Banking	1	4
RCN (Canada)	2	2
Sears Roebuck	1	1
Stone & Webster	1	1
United States Steel	1	1
Wisconsin Motors	<u>1</u>	<u>1</u>
Total 23	32	44
IV. <u>BREAKDOWN OF VISITS BY GOVERNMENT DEPARTMENTS, BUREAUS, AND AGENCIES</u>		
1. <u>DEPARTMENT OF DEFENSE</u>		
Research & Development Board	1	6
WSEG	1	1
Location or Assignment not Specified	<u>2</u>	<u>4</u>
Total 3	4	11
2. <u>DEPARTMENT OF THE ARMY</u>		
Aberdeen Proving Grounds	2	3
Evans Signal Laboratory	1	1
Intelligence	1	1
Liaison	1	2
Office Ord. Research	1	1
Signal Corps Engineering Labs.	10	20
Location or Assignment not Specified	<u>3</u>	<u>20</u>
Total 7	19	48

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	No. of Visits	No. of Visitors
3. <u>DEPARTMENT OF THE NAVY</u>		
Bureau of Aer.	2	3
Bureau of Ships	3	4
NAMTC	1	1
Naval Ordn. Lab.	2	2
Naval Ordnance Test Station	1	1
Naval Research Lab.	1	1
Naval Reserve & USN	18	22
ONR	15	18
USNEL	<u>3</u>	<u>5</u>
Total 9	46	57
4. <u>DEPARTMENT OF THE AIR FORCE</u>		
AFCRC*	58	65
AFDRQ-AD	1	1
AFMTC	4	4
Air Defense Command	2	7
ARDC	12	18
EADF	1	1
Hanscom Air Force Base	1	1
HQ, USAF	3	6
RADC	2	2
6520 Flt. Test Sqdn.	2	3
WADC	12	18
Location or Assignment not Specified	<u>71</u>	<u>160</u>
Total 12	169	230

* Number of visits and visitors not significant because of our special relations with AFCRC.

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	No. of Visits	No. of Visitors
5. <u>OTHERS</u>		
Atomic Power Division	1	1
CAA	1	5
Frankfort Arsenal	1	1
Joint Services Advisory Board	1	1
National Bureau of Standards	9	11
U. S. Bureau of Budget	1	3
U. S. Bureau of Mines	1	1
U. S. Gen. Acctg. Off.	1	2
Watertown Arsenal	<u>1</u>	<u>1</u>
Total 9	17	26

Signed: Robert A. Nelson
Robert A. Nelson

RAN:1