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RADIATION EFFECTS INFORMATION CENTER

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⑫ May 15, 1963

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PART II
COORDINATE INDEX

INTRODUCTION

The REIC staff have determined that the Monthly Accession List is being used for retrospective searches as well as a current awareness facility. Consequently, the staff and the sponsor feel that an adequate index should be supplied to serve as a rapid search tool.

** is present*

~~The following~~ inverted concept-coordinate index ~~is~~ based upon terms generated in the REIC subject files. The index is cumulative throughout the year, and the staff plans to provide a "dual dictionary" at the end of each contract year to facilitate the retrospective search capabilities for the accession list abstracts.

The index is subdivided into four sections. The first, Radiation Environment, includes dosimetry and energy aspects of all electromagnetic and particulate radiation sources, with the exception of space radiation. Section two deals with materials, properties, secondary environment (including space environments), devices, and all other subject concepts. Section three lists all authors, in alphabetical order; and section four lists the generating organization.

Under each concept term in the index are listed the accession numbers of the abstracts which have been indexed by that term. Links have been added where necessary to obviate improper coordination with the resulting false retrieval. Experience demonstrated that only four of the proposed EJC standard role indicators would have been required with any significant number of the entries.

To use the index, take those terms, authors, organizations, etc. which collectively describe the idea, or ideas, for which the search is required. A comparison of the accession numbers will show those abstracts whose accession numbers are common to all desired terms. These abstracts should contain information on the desired subject matter.

Three important facts must be remembered in the use of this coordinate index:

- (1) This is a SELECTED ACCESSION LIST. Not all the documents extracted for the REIC File are abstracted for inclusion in this list. Approximately forty per cent are felt to be inappropriate. Consequently, to insure completeness in any search, it is essential that the REIC be contacted.
- (2) Since this is a cumulative index, the index for the preceeding month should be destroyed. As the index is developed, changes are made both in the arrangement of terms and in the selection of terms.
- (3) This dissemination service is not intended to replace direct contact at the various locations remote to the Center. Direct contact with the Center and its technical staff is encouraged.

DOCUMENT AVAILABILITY

The reports listed in the Monthly Accession List are not available from Battelle. This limitation on the provision of reports to requestors is a result of the Government attempting to reduce duplication of effort in that many of the reports are available through document distribution organizations such as: Armed Services Technical Information Agency, Office of Technical Services, and the AEC Division of Technical Information Extension. Copies of journal articles are not provided because of copyright restrictions and the belief that journals should be readily available to the requestor on inter-library loan.

The following abbreviations are used to indicate the availability of documents:

- (1) ASTIA - Reports available to Government Contractors with correct Field-of-Interest Register on file from the Armed Services Technical Information Agency, Document Service Center, Arlington Hall Station, Arlington, Virginia.
- (2) AEC - Reports available to Government Contractors via channels described in Nuclear Science Abstracts. DOD Contractors' requests should go to the AEC Technical Information Service, Oak Ridge, Tennessee via the contractor's project monitor.
- (3) ASAPRD-NS - Reports available to Air Force Contractors via the contractor's project monitor through channels to ASD, ASAPRD-NS, Wright-Patterson Air Force Base, Ohio.
- (4) OTS - U.S. Department of Commerce, Office of Technical Services, Washington 25, D.C.
- (5) NASA - National Aeronautics and Space Administration, Office of Scientific and Technical Information, Attention: Code AFSS-A, Washington 25, D.C.

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17094

[illegible]

Oxygen for Oxygen Environment see in Oxygen
18020
18000
18559

Oxygen Product

Ozone Product

Paints

Paper c- also specific paper
18050A

Paraffin Oil

17200

Particle Accelerators see Accelerators

Particle Detection see specific devices

Peel Strength

Pennsylvania State University Research Reactor

18591

Pentaerythritol Tetranitrate

2,2,4,4,6,6-Pentamethylheptane

Perchlorovinyl

Perchlorovinyl Copolymers

Perfluoro-2-Butyltetrahydrofuran

Perfluoro-2-Propyltetrahydrofuran

Perfluorooctane

Perfluorotributylamine

Permanent Gel

Permeability

Phase Shifter

Phase Transitions

Phenanthrenes

Phenolic Resins

Phenyl Cyclohexadiene Product

Phenylene 1500

Phonon Absorption Bands

Phosphor

Photocatalytic

Photocopying

Photographic Dosimeters

Photolysis

Photomultiplier Tubes

Photomuclear Reactions

Photoresistance

Photosensitivity

Physical Properties see specific property

Piezoelectric

Pigments

Plastic Deformation

Plate Glass

Platinum

Plasma Reactor

Plutonium

Pore

Joint Defects see also Defect Formation

Polybutadiene-Acrylic Acid Propellant

Polybutadiene

Polyester Resins

Polyethylene

Polyethylene

Polyethylene

Polyethylene

Polyethylene

Polyethylene

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Bryant, D. A.		18047	Cooper, M. J.	17991		
Bryant, F. R.		18586	Coppage, F. W.	17613		
Bucci, Jr., W. W.	17933		Correlli, J. C.	18923	17627	
Buckalew, W. M.		17286	Cornelius, G. K.			17879
Burnett, J. R.	18923		Courtois, D. A.	17811		
Burnett, W. D.	17622		Courtois, D. A.	17810		17888
Burns, W. G.		18968	Cowling, J. E.	17930	18576	17869
Burrell, M. O.	17999		Cox, J. W.	17623		17638
Burrows, M. L.			Craeco, F.		18927	
Burton, M.	18021	18077 18967	Craig, C. L.		17696	
Burton, R. A.		18009	Crain, C. M.		17986	
Bush, E. G.	17632		Cranford, W.	17904		
Butler, C. T.		18696	Craven, J. D.	18614		
Byurganovskaya, G. V.	17365		Crawford, J. E.	17903		
Cahill, J. P.		18069	Crawford, Jr., J. H.		18696	
Cain, J. C.	18993		Cropper, W. H.	17642		
Caldwell, R. L.		17918	Crosby, J. K.	17831		18079
Caldwell, R. S.	17645	18987	Crouset, C.			18949
Galloway, R. F.	17653		Cummings, W. V.			
Callihan, F. R.		17867	Cupp, C. R.	18031	18023	
Calne, E. E.	17935		Curran, D. R.	17831		
Cameron, Jr., R. A.			Curtin, E. G.		17694	
Campbell, F. J.		17396	Curtis, Jr., O. L.		18696	
Carpenter, F. D.	17932		Dammak, A. C.	17891		17830
Carpenter, L. G.			D'Anna, P. J.	18981		
Carriker, A. W.	17994		Dato, R. V.	18000		
Carroll, J. B.	17963		Datta, S. K.	17833		
Carroll, J. G.			Daupert, U.	17380		
Carroll, W. F.	18591		Davidson, J. M.	17613		
Carter, H. G.		18957	Davis, L. R.			18048 17908
Cash, B. L.			Dearmley, G.			17710
Champion, G. P.		18665	Defferding, L. J.	18021	18023	
Chao-chien			De Ford, J. M.			
Chapman, R. W.			De Forest, R. D.		18686	
Chapman, S.	18993		Delavignette, P.	17639	18647	17308
Charleaby, A.			Demarest, K. E.	18972		
Cheek, C. H.		18088	De Nure, D. G.	17822		18047
Chester, R. O.		18696	Desai, U. D.			
Childs, B. G.	17663		Dexter, J. F.		17654	
Childs, C. B.			Dickerson, W. C.			18630
Chow, J. G. Y.			Dickhaut, R. H.		18666	
Christian, J. L.	18035	18617	Diebold, J. W.			18698
Cladie, J. B.	18051		Divita, E. L.			17909
Clark, F.			Dugan, B. A.	17612		18098
Clauss, F. J.	18032	18994	Dole, W.		18987	
Cleland, J. W.		18696	Dondos, S.	17870		
Cline, T. L.	17903	18047	Donlan, V. L.	18042		
Cocca, V.			Donnelly, M. M.		17825	
Collins, C. G.			Dooley, J. A.	18632		
Colner, W. H.		18027	Doughman, C. L.	17933		
Colombo, P.			Dow, H. F.			18979
Coltman, R. R.		18696	Doyle, J. E.			18638
Compton, D. M. J.	17354	17616	Dragan, I.			
Conner, J. F.		18008	Draha, S. P.	18032		
Connolly, R.			Driesner, A. R.			17309
Conrad, E. E.	17352		Drooge, J. W.			17809 17939
Cook, Jr., W. R.	18962		Dugan, W. E.			17809
Coombe, R. A.			Dunne, B. B.		17947	
Cooper, J.	17961		Dusley, J. W.	17841		

Giberson, R. C.				17398	Shengli, D. B.	18588			
Giesler, N. W.	18933				Shigawa, H.		17973		
Glassstone, S.			17386		Shiohata, F. J.				17898
Goodale, A. D.				18088	Sison, C. J.		17994		
Goldman, R. J.	18953		18996		Slott, D. B.				
Goldstein, B.					18940				
Goldstein, H.	18998		17899		Smilie, A. G.				17618
Goodrich, R. F.				18939	Snigle, O. B.				
Graft, R. D.	17348	17813	17914		18950				
Grafton, J. G.				17988	Srinivasan, J. O.	17831			
Gray, D. S.					Strong, C. T.				17588
17370					Swane, H. E.		17633		17347
Gray, F. D.	17811			17879					17627
Grisebach, F. B.			18909	18986	Palmer, H.	18531			
Grounes, M.	18033				Palalayev, G. A.			17986	
Gumano, J. F.			18094		Palk, R. A.				17867
Guber, V.				17896	Palmerbury, R. F.		17904		
Gumel, R. K.				17818	Pan, H. Y.			17989	
Gunn, E.	17901				Paughman, B. W.				18679
Gurinsky, D. E.	18040				Peltner, C. E.	18098			
17371					Ferguson, A.T.G.				1
Gustafson, P. F.	18090				Ferraro, F.	18531			
18090					Fessler, H.	17898			
Hase, F. C.			18064		Field, D. B.				
Hawe, C. R.				18937	Fieno, D.				18576
Hall, J. D.					17901		17889		17869
17690					Finch, W. L.				
Hall, K. L.	18971				Fischer, H.				17897
Hallam, J. W.					Fisher, Jr., H. F.				17899
Hallmark, W. C.	18633				Flatley, T. W.		17633		17887
18673					Fleming, J. D.				17347
Hanill, W. H.			18094		Florin, R. E.				17687
Hansen, D. J.	17343				18070				
Hammel, E. F.				17898	Foelsche, T.	17902			
Henne, H. G.				17989	Fogelson, M. S.				18098
Harkin, H. N.			17634		Forman, R.		17904		
Haven, M. W.				17899	Fox, T. A.	17901		17889	
Hanson, G. H.			17643		Frank, L. A.		18003	18614	18043
Harman, W. L.				18696	Frankel, R. E.				17346
Harper, B. G.	18008				Fraser, D. B.		17693		
Hartah, L. A.				18969	Freden, S. C.				
Harties, D. R.				18037	18940				
Harrison, G. R.					Free, J. J.				17939
Harrison, J.	18984			17978	Freeman, B. E.			18939	
Harrison, S. E.			17635		Freundlich, M. M.				17886
17531					Friedland, S. S.		17943		
Hartity, J. W.			17909	18046	Frison, L. J.	18691			
Hart, E. M.				17878	Frita, E. G.				
Hart, E. V.	18961				Fuoy, A.		17932		
Hart, R. R.					Gabrovack, Z.				
Hartock, P.	18693				Gage, D. S.				
17870					Gain, R.		17624		
Hasegawa, K.				17907	Gallanter, L.				
Hawthorne, J. R.			18064	18065	17681				
Hayakawa, S.					Galkin, G. B.				
Hayashi, K.	17913				Gardner, L. B.				
Heffner, R. E.				17688	18930		17353		17599
Heine, R. F.					Gardner, R. E.				18019
Heinze, E. D.			18095		Gatsek, L. E.				
Heits, R. M.	18981				17340				
18981					Gaurin, H. P.				
Held, K. M.	18953			18996	Gee, R. A.				18949
Hein, J. W.					Geer, R. L.		17944		
Heine, R. L.	17613				George, M. S.		18004		
18671					Gereha, R.H.J.			18069	
Hemler, J. R.				17689	Gersteine, S.	17872			
Hess, W. B.			18997	18999	18609	17938			17886
Hesse, W. J.					Gottler, M.				17367
	18073				Ghani, A.	18531			

Mayda, J. F.				18489	Jones, T. H.			18494		
Nickman, B. W.	18093				Kallander, J. W.			17330		
Mill, H. M.			18008		Kalon, M. H.	18552				
Mill, M.R.H.		17364			Kaplan, A. L.			17890		
Milton, H. H.		17634			Kaplan, L. L.					17010
Minkle, H. E.				18039	Kaplunov, M. Ya.				18004	
Mo, Siu-Chung	17043				Margin, V. A.	17701				
Mobstetter, J. W.			17366		Karpov, V. L.			18007		
Mocking, L. M.				18939	Kashlinski, A. I.				18004	
Mocraffer, V. D.		17284			Kats, A. J.	17952				
Moffman, R. A.				18048 18998	Katsoff, S.					17000
Molly, F. E.				18008	Kauffman, J. W.			18026		
Monaker, W. C.			18586		Kaufman, A. B.	17393	17944			17309
Mones, Jr., E. W.					Kaye, S.			17636	17098	17009
Mopkins, G. R.	17903				Keen, R. T.	17891				
17940		17629			Kellinaka, G. W.	17872		17669		
18660		18055			Keister, S. L.			18004	18007	18004
Moriya, H.			18446		Keith, J. E.					
Morrmann, H. H.	17333				Keller, J. W.	17988				
Morsfield, A.			18086		Kelley, M.					
Boyt, E. V.	18072			18949	17900					
Meiso, C. C.	18092				Kelly, B. T.	17370				
Mudson, R. G.	17932				Kempler, C. F.					17409
Mull, D.				18008	Merlin, E. B.			17304	18969	
Mull, J. B.	17831				Mernohm, R. H.				18696	
Mulken, W. C.		17344			Merriage, J. F.			17894		
Rumpherys, K. C.			17805		Merrigan, M. A.	18090				
Munt, R. A.	18642				Merris, K. G.	18932				
Hunter, E. T.	18921				Kilminster, D. T.					
Hunter, R. W.	18961				17890					
Hurray, T. G.			18696		Kinch, J. W.					
Huth, G. C.	18681				17890					
Hyder, K. R. M.R.				17308	King, S.B.F.					17309
Hyneman, R. F.	18932				King, J. C.	17693	17804			
Ikrath, K.	17522				Kingsbury, P. D.				18098	
Ikuishima, H.	17913				Kircher, J. F.					17899 18990
Ingram, R. D.				17699	Kirn, P. B.				18447	
Intushi, Y.	17973				Kistler, V. B.					
Iaenberg, L.	17340				18000					
Ishikawa, H.	17973				Klabunde, C. E.			18096		
Ivins, R. O.			18047		Klein, W.				17527	17009
Jackson, E. G.	18973				Klement, Jr., A.		17894			
Jacobson, R. H.			18697		Klick, C. G.				18097	
Jaffe, L. D.				18080	Kliman, H.	18081				
Jäger, P.			18076		Klonts, E. E.			17006		
Jagodzowski, S. J.			17826		Kloster, R. L.	17620				
Jervie, E. R.				18919	Knapp, W. S.					17779
Johnson, A. A.		17894		17369	Knight, Jr., J. A.	18012	18963			
Johnson, E. J.		17684			Knoll, R. H.		18013			
Johnson, E. R.					Koch, A. B.				17867	
17950					Koehler, H. P.					18049
Johnson, J. C.				18009A	Koehler, J. S.			18026		
Johnson, M. C.					Komaki, A.		17363			
17810					Kondo, M.	17362				
Johnson, P. H.		18065	18066	18067	Konoreva, E. A.			17904		
Johnson, W.T.R.	17983				Konovaleva, B. M.			17974		
Johnston, W. H.	17992		17906		Kornhauser, M.				17977	
Jolley, G. E.				18980	Kortenhoeven, J. L.					
Jones, A. R.			18637		17811					
Jones, D. T.				17640	Kosenskranus, L.			17044		
Jones, E.B.O.				18078	Kotanshik, J. B.		18003			18098
Jones, P. T.					Koslov, V. T.					
Jones, R. C.			17916		Krause, M.	17992		17900		
					Kretz, H. J.					17789

McNair, J. L.	18055	18057	Osborne, M. F.	18056	
McNair, H. J.	18595		Oswald, Jr., R. B.		
McNair, L. L.		1791A	Overton, M. L.	17315	
McNair, J. G.	18056		Patterson, D. A.		17897 18057
McNair, L. L.		17829	Patterson, W. J.	17935	
McNair, M. T.	18056		Paulikas, G. A.		
Martin, J.	17973		18540		
Martin, J. A.	17701	17628	Paxton, T. R.	18055	18057
Mateff, J.		18018	Payne, M. G.		
Motoc, J.		17667	17951		
Moser, F. S.			Pearson, M. L.		
1855			18001		
Mueller, A. A.	17885		18011		
17901			Peck, D. S.		18529
Muller, A.			Peihany, J.		18048
17021			Pellini, W. S.		17849
Murphy, J. E.	17983		Pennicks, R.		
18500			17600		
Murphy, J. E.	18033		Pertine, G. W.	18643	18645
18000			18550		18549
Myakota, V. I.			Perrine, M. S.		
Myers, H. P.			Peshkov, S. V.		17697
Myers, I. T.	18945		Peterson, D. B.		18507
Myers, J. S.			18021		
Nakamichi, S.	17362	18946	Peterson, P. J.		17938
Nakamura, K.			18020		
Nakawicz, W.	17662	17895	Pfaff, E. S.		17897
Need, J. L.	17892		Pfaff, J.		
Neering, F. P.		18105	Piantanida, E.	18555	17048
Neisum, K. E.	17293		Piassi, M.	18555	17048
Nevison, T. D.			Pieper, G. F.		
New, J. C.	17271		Pinner, S. M.	18075	
Newberg, J.		18678	Pizarek, R. H.		
Newell, D. M.		17829	18671		
Newell, Jr., W.			Pizzella, G.	18012	
17801			Plank's, E. P.	18052	17049
Newhoff, H. M.	17944		Plotke, F.		18558
Niblett, D. H.		17376	Plotnikov, A. F.	17305	18070
Nichols, D. K.		18646	Poirier, J. A.		18500
Nichols, R. W.		18037	Poley, W. A.	1793	
Nightingale, H. E.	17613		18533		
Ninoul, J.	17372		Poll, H. A.		17800
Niki, H.		18575	Pollard, F. M.		
Nisenoff, M.		17995	Potter, H. A.	18000	
Nishi, M.			Pracht, D. W.	17982	
Nunan, F. M.		18570	Price, H. M.	18022	18518
Nordwell, M. L.		17908	Price, W. E.	17692	18510
North, M. B.		17890	Prigg, J. C.		
Norton, H. M.			Proulx, P. P.		18059
17000			Pugacz, M. A.	17135	
Orthman, G. J.		18590	Quatela, C. L.		18019
Novak, R.		17295	18019		
O'Brien, B. J.	17993 18003	18045	Quatela, T. A.	17915	
		18046A	Radak, B.		17097
O'Brien, P. D.	18531		Rambosch, O. M.		
Orian, O.	18071	17832	17351		
		18583	Rarrick, M. I.	1722	
		17614	Rasool, S. I.	18042	
		18054	Ray, J.	18532	
O'Donnell, J. D.			Redman, J. K.		18056
17811			Redman, J. R.	18592	
Ogilvie, A.	17663		Red, C. R. V.		18519
Ogilvie, K. W.		18005	Red, J. C.	18103	18599
Okamura, S.	17363		Red, T. M.		
O'Malley, G. D.		17814	18000		
Olson, R. M.		18635	Reilly, H. J.	18533	
Ordway, III., P. I.			Reishars, H.		
18030			18631		
Orlov, R. P.		17363	Renton, C. A.		17316
			Reynolds, R. S.	18595	
O'Rourke, R. C.	17351		Reynolds, W. E.	18943	
Orr, W. L.	17272		18931		
			Richardson, D. A.	17694	
			Richardson, J. B.		18029

Watt, Jr., M. E.		1846	
Wynn, J.			
Wynne, J. J.	17351		
Yamaki, J. J.		17295	18679
Yamada, M.	17369		
Yamamoto, K.		18096	
Yang, J. W.	18092		
Yang, L.	17932		
Yano, M.		17303	
Yaroshetskii, I. D.		17974	
Yavin, A. I.	17303		
Yevick, J. O.	17992		
Yockey, H. P.	18562		
Yoshida, H.		17363	
Yoshikawa, M. H.		17613	
Young, Jr., F. W.	17552		
Young, M. C.	17032		
Yurk, J. F.		18073	
Yurkevich, V. G.		18097	
Zack, Jr., J. F.		17926	18669
Zamorites, H. A.	18672		
Zeln, F. H.			17369
Zelma, P.		18674	
Zenasoules, M.	18540		
Ziemba, F. P.	17891	17943	
Zimmerman, D. L.	18072		18549
Zimmermann, E. L.		17943	18635
Zueva, M. V.		17643	
Zuma, A. J.		18046	18537

SECTION IV
ORGANIZATIONS

Admiral Corporation	17932	17886	17936	General Electric Co., Walcott Atomic Laboratory	18078		18099
Aerojet-General Corporation	17340	17811	18917	Georgia Institute of Technology	18012	17836	
Aerojet-General Electronics	18001			S. F. Goodrich Company	18580	18099	18097
	18011			Grumman Aircraft Engineering Corporation	17969		
Aerospace Corporation	17340			Holmes and Narver, Inc.	17350		
18540				John Hopkins University	18691	18046	
Aerospace Industries Association of America, Inc.	17883			Howard University	17308		
American Cyanamid Company		18584		Hughes Aircraft Company	18671	18108	18649
American Machine and Foundry Company		17994		18690	18671	18073	
American Oil Company	17880		18569	18538	18661		
American Society for Testing and Materials	18613			18568			
ARINC Research Corporation			18519	Hughes Research Laboratories	17812		
Aro, Incorporated		18564		Illinois Institute of Technology, Armour Research Foundation	18010		18977
Atomic Power Development Associates, Inc.	17992			International Business Machines Corp., (IBM)	17980		18918
Avco Corporation		17384		International Nickel Company, Inc.	18031		
Babcock and Wilcox Company	18041		17327	William H. Johnston Laboratories, Inc.	17952	17906	
The Barnes Engineering Company			17957	Laboratory for Electronics, Inc.	18560		
Battelle Memorial Institute	17342	17343	17914	Leeds and Northrup Company	17911		
17342	17813		18106	Arthur D. Little, Inc.	18014		17618
Bausch and Lomb Inc.	18100						17908
Bell Telephone Laboratories	17820	17821	17822	Litton Systems, Inc.	18668	17353	17944
17840	17821	17822	17693	Lockheed Aircraft Corporation, Georgia Company	17653	17695	17389
		17823	17824	Lockheed Aircraft Corporation, Missile and Space Company	18091	17692	17996
The Bendix Corporation	17810			18032			17897
17930				Martin-Marietta Corporation			
The Boeing Company	17630	17644	17645	Massachusetts Institute of Technology	17308		17904
17650		17946	18527	McDonnell Aircraft Corporation	17308		
Brookhaven National Laboratory	18040	17371	18534	Mechanical Technology, Inc.			17348
18040	17621	18544	18667	Mellon Institute		18575	18649
	17891			Minneapolis-Honeywell Regulator Company	17804		
Burroughs Corporation	18061			Minnesota Mining and Manufacturing Company	17641		17139
18670				National Research Corporation	18573		
California Institute of Technology, Jet Propulsion Laboratory	18501		18028	North American Aviation, Inc., Atomic International	18600	17985	17987
18571			17899	18600	18572	18616	17994
California Research Corporation			18019	North Carolina State College	18582		17992
Carnegie Institute of Technology		18575		18582			18669
Chance Vought Corporation		18673	17355	Northrop Corporation	18530	18665	17898
Clevite Corporation	18562			18581			
Cornell Aeronautical Laboratory, Inc.		18064		Northwestern University	17612	17645	18646
Cutler-Hammer Inc.			17876	Notre Dame University	18021	18094	18077
Douglas Aircraft Co., Inc.			17896				17947
				Quana-Corning Fiberglass Company	17270		18058
			17836	Pennsylvania State University		18585	18059
Dow Chemical Company	1A-Ap		18018	Phillips Petroleum Company	18570		17699
Dow Corning Corporation		17694		17311			17628
E. I. du Pont de Nemours and Company	18103			Polaroid Corporation			
18103		18025	17908	Purdue University		17916	
Edarson, Germeshausen and Grier, Inc.	17351	17922	18588	Radiation Applications Inc.	18071	17905	17644
17351	17922		17929	18071	17832	10583	17614
Electro-Optical Systems, Inc.	17291	17634	18595	17832			18074
General Dynamics/Astronautics	17960			Radiation Inc.			17997
17960			18617	Radio Corporation of America		17895	
General Dynamics/Fort Worth	17720	17631	17895				17939
17720	17931	17904	18066	The Rand Corporation		18615	17586
		18035	18536	Raytheon Company			18008
		18065	18537			18674	
General Dynamics/General Atomic Division	17740	17932	17689	Rensselaer Polytechnic Institute	17870		
17740			17616	17870			
			17897	Republic Aviation Corporation		18006	18007
			17947				
			18646	Research Triangle Institute	17640		
			18535	Reuter-Stokes Electronic Components, Inc.		18636	
			18655				
General Electric Co., Defense Systems Dept.	18520		17896	Rice University		17915	
18520							
General Electric Co., Hanford Atomic Products Operation	18621	17613	18545	Rutgers State University			18546
		17853					
		18623		Sandia Corporation	18680	17331	17682
General Electric Co., Wholly Atomic Power Lab.		18529	17627	17331	17682	17894	17889
General Electric Co., Missile and Space Vehicle Dept.			17967	17641	17642		17615
General Electric Co., Nuclear Materials and Propulsion Operation (Aircraft Nuclear Propulsion Dept.)	17730		18038	18531		17635	
			18540	Socony Mobil Oil Co., Inc.			17918
General Electric Co., Receiving Tube Dept., Owensboro, Ky.		18644	17935	Solid State Radiations, Inc.	17891	18743	18735
				Southwest Research Institute			
General Electric Co., Schenectady	18671		17894	Space Technology Laboratories, Inc.	17893		18009
18671			17626				
			17658				
			17940				

University of Reading	17376	
University of Wales		18070
Greece		
University of Athens		
1964		
India		
Central Chemical and Metallurgical Laboratory		
1964		
Atomic Institute of Nuclear Physics		
1970		
Israel		
Israel Atomic Energy Commission	17316	
Italy		
Laboratori C.I.R.E.	17373	
University of Rome	19612	
Japan		
RIKEN Research Institute	17582	
Industrial Research Institute	17371	
Japanese Association for Radiation Research on Polymers	18064	18069
Kobe Kogyo Corporation	17973	
Kyoto University	17363	
Hitachi Electric Industrial Co., Ltd.	17913	
Osaka University	17973	
Shizuoka University		17907
Tohoku University		17907
1964		
Tokyo Metropolitan Institute Center	18096	
Toyo Pylon Company, Ltd.	17702	
Netherlands		
Technisch Documentatie en Informatie Centrum Voor De Krijgsmacht	19541	
Romania		
Institutul de Fizica Atomica si Academiei	17667	
Sweden		
A.B. Atomenergi	18033	17969
Switzerland		
European Organization For Nuclear Research (CERN)	18631	
U.S.S.R.		
Academy of Science of the U.S.S.R., Moscow	17601	
Academy of Science, A.F. Ioffe Physico-technical Institute, Leningrad	17903 17974	
Academy of Science, P.N. Lebedev Physics Institute	17304 17305 18675	18676
Academy of Science, Uzbek SSR		17697
I.I. Mechnikov State University	17396	
Institute of Precision Alloys		18020
Kharkov Steel Institute		17639
Kharkovskii Institut Tsvetnoi Khimicheskoi Tekhnologii		
1960		
Scientific Research Institute of the Rubber Industry	18100	
Ural Research Institute of Ferrous Metallurgy	17696	
Yugoslavia		
Scientific Institute of Nuclear Sciences	17907	
1964		