U.S. WORKS PROGRESS ADMINISTRATION

BIBLIOGRAPHY

OF

AERONAUTICS

Part 21

Blind Flight
Automatic Pilot
Ice Formation

Compiled from the
INDEX OF AERONAUTICS
of the
INSTITUTE OF THE AERONAUTICAL SCIENCES
30 Rockefeller Plaza
New York City

The Index and Bibliographies have been prepared by workers under the supervision of the
U.S. WORKS PROGRESS ADMINISTRATION
Cecil A. Ross
Senior Project Supervisor
Project 165-97-6055

1937
FOREWORD

This bibliography is one of a series which aims to cover a large part of aeronautical literature. It is published by the U. S. Works Progress Administration Project 165-97-6055 under the sponsorship of the New York City Department of Docks with the cooperation of the Institute of the Aeronautical Sciences.

Request for Additions

The Institute of the Aeronautical Sciences which is directing the U. S. Works Progress Administration staff of workers will appreciate receiving additional references, corrections and criticism, so that the bibliographies will be more helpful when issued in final form.

Request for Copies

The bibliographies have been prepared with funds allotted by the U. S. Works Progress Administration. They may not be sold.

Persons and organizations wishing to procure copies may apply for them by letter, stating the use for which they are needed. When it is possible to prepare additional copies such requests will receive first consideration.

Robert R. Dexter
Aeronautical Engineer

Address all correspondence to:

John R. Palmer
Managing Project Supervisor
U. S. Works Progress Administration
5431 R.C.A. Building
New York City
ABBREVIATIONS

A R.C. R & M - Great Britain. Aeronautical research committee. Reports and memoranda.


C.I.N.A. - Commission internationale de navigation aérienne, Genève.


D.V.L. - Deutsche versuchsanstalt für Luftfahrt, Berlin.


R.A.F. - Royal air force (Great Britain)

R.A.S. - Royal aeronautical society (Great Britain)

Rend. Istituto sper. aer. - Rendiconto dell'Istituto sperimentale aeronautico, Roma.

S.A.E. - Society of automotive engineers, New York.


V.D.I. - Verein deutscher ingenieure, Berlin.


Z.F.M. - Zeitschrift für flugtechnik und motorluftschifahrt, München.
<table>
<thead>
<tr>
<th>TABLE OF CONTENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Part I</strong></td>
</tr>
<tr>
<td>BIBLIOGRAPHY ON BLIND FLIGHT ........... 1</td>
</tr>
<tr>
<td><strong>Part II</strong></td>
</tr>
<tr>
<td>BIBLIOGRAPHY ON THE AUTOMATIC PILOT... 22</td>
</tr>
<tr>
<td><strong>Part III</strong></td>
</tr>
<tr>
<td>BIBLIOGRAPHY ON ICE FORMATION........... 34</td>
</tr>
<tr>
<td><strong>AUTHOR INDEX</strong></td>
</tr>
<tr>
<td>.................. ............... 45</td>
</tr>
</tbody>
</table>
Part I

BIBLIOGRAPHY ON BLIND FLIGHT


Air track. Aviation, Mar. 1937, p. 42. illus.


Preventing collision in the air; Radiaura. Scientific american, Nov. 1936, v. 155, p. 301.

Schlechtwetter-landegeräte, von W. Moser. Telefunkenzeitung, Nov. 1936, v. 17, no. 74, p. 5-18. diagrs., illus.


Department of commerce issues regulations governing blind flying on civil airways. Air commerce bulletin, Aug. 15, 1936, v. 8, no. 2, p. 38-45. illus.


Automatic landings; device to tie up radio landing aids with automatic piloting. Aviation, June 1936, v. 35, p. 53. illus.


United air lines instrument landing system. Aero digest, June 1936, v. 28, no. 6, p. 60. illus.


Blind landing. Time, May 18, 1936, v. 27, p. 69.


Blind approaches at Farnborough. Flight, Feb. 6, 1936, v. 29, p. 147, 150.


Brumes et brouillards, par H. Clusy. Technique aéronautique, 1936, v. 27, no. 139, p. 64-73.


Personal observations of blind flying. Aircraft, July 1935, p. 16.

Department of commerce to survey sites at twelve airports for installation of blind approach equipment. Air commerce bulletin, June 15, 1935, v. 6, no. 12, p. 277-78.


Radio blind landing system to be installed on midcontinental airway. Air commerce bulletin, Feb. 15, 1935, v. 6, no. 8, p. 179-82. diagr.


Army air corps radio blind-landing system adopted as standard by Bureau of air commerce. Air commerce bulletin, Nov. 15, 1934, v. 5, no. 5, p. 107-09.


Dispositif radio-électrique d'approche facilitant l'atterrisage des aviateurs en cas de plafond bas. Revue aeronautique internationale, June 1934. 4 p. diagr.

Essai de fonctionnement d'un dispositif radioélectrique pour l'atterrisage sans visibilité des avions. Revue aeronautique internationale, June 1934. 8 p. diagr.
Les Radiophares d'atterrissage. Procédé allemand de radiophare sur ondes ultracourtes pour la sécurité des atterrissages par mauvais temps ou sans visibilité, par le Dr. Potzel. Revue aéronautique internationale, June 1934. 8 p. diagra.


Under the hood, by William C. Ocker. Southwestern aviation, May 1934, p. 4-6.


They're coming through the ceiling, by W. B. Courtney. Collier's, Sep. 16, 1933, v. 92, p. 12-13.


Flying blind, by H. L. Lewis, II. Universal model airplane news, Sep. 1933, p. 4-5.


Blind flight training, by Howard Cyrus Stark. Sportsman pilot, May-June 1933, p. 6-7.

Curved radio beam now lands planes in fog. Popular science, June 1933, v. 122, p. 28. diagrs., illus.

War on fog, by C. M. Young. Western flying, Los Angeles, June 1933, v. 13, no. 6, p. 8-10.

Performance data on system of radio aids for blind landing of aircraft. Air commerce bulletin, May 1, 1933, v. 4, no. 21, p. 525-27.

Down the landing beam; fog landing system demonstrated at Newark airport by the Department of commerce, by S. P. Johnston. Aviation, May 1933, v. 32, no. 5, p. 162-65.


Department of commerce develops radio system for blind landing. Southern aviation, Atlanta, Ga., Apr. 1933, p. 5-6.


Unique plan of solving the problem of landing in fog, by C. Laird. Southern aviation, Atlanta, Ga., Apr. 1933, p. 3-4.


Radio system for blind landing of aircraft to be given service tests. Air commerce bulletin, Mar. 15, 1933, v. 4, no. 18, p. 441-47. diagrs.


Bill Eddy tells of "Instrument flying". Aircraft age, Jan. 1933, p. 4.


Follow the beam, by A. F. Bonnalie. Western flying, Los Angeles, Nov. 1932, v. 12, no. 5, p. 20-22. diagr.


Flying the radio ranges. Air commerce bulletin, Sep. 15, 1932, v. 4, no. 6, p. 135-50. diagrs., maps.


Instrument flying under a hood. Western flying, Los Angeles, May 1932, v. 11, no. 5, p. 30. illus.


Seeing the air, by Ralph H. Upson. Western flying, Los Angeles, May 1932, v. 11, no. 5, p. 34-36. illus.


Photo-electric tube in fog flying, by W. F. Westendorp. Aviation engineering, July 1931, v. 6, no. 1, p. 28.

Air speed indicators and blind flying, by Volncy C. Finch. Southern Aviation, Atlanta, Ga., June 1931, v. 2, no. 10, p. 8-10. illus.


Seeing through the blindfold, by Paul W. Bigelow. Southern Aviation, Atlanta, Ga., May 1931, v. 2, no. 9, p. 15-16. illus.
Premier congrès international de la sécurité aérienne. Revue générale de l'électricité, Apr. 11, 1931, v. 29, no. 15, p. 571-76. illus.

Apliaciones de las ondas radio-electromagnéticas a la aviación, por Harry Diamond y F. W. Dunmore. Ingenieria internacional, New York, Apr. 1931, v. 19, no. 4, p. 177-79. illus.

British contribution to blind flying problems. Canadian air review, Apr. 1931, v. 4, no. 2, p. 27, 39, 41. diagr.


Beacons as aids for blind flying. Dun's international review, Nov. 1930, v. 56, p. 54. diagr.


Twenty new radio communication stations will be established. A number of improvements have been incorporated in the blind landing aids now under development at College Park, Md. Air commerce bulletin, July 1, 1930.


Flying blind. Air travel news, June 1930, v. 4, no. 6, p. 20, 74. illus.


Radio-beam for aircraft landings in fog being developed. Automotive industries, Mar. 22, 1930, p. 481.


Fog flying instruments are nearing perfection. Dun's international review, Mar. 1930, v. 55, p. 72. diagr., illus.


Instruments to increase efficiency and safety of aviation developed by federal specialists, by H. D. Hubbard. Commercial standards monthly, Feb. 1930, v. 6, no. 8, p. 288-89. illus.

Volat senza visibilità. Aeronautica, Feb. 1930, v. 8, no. 8, p. 93-95. illus.


Equipment used in experiments to solve the problem of fog flying, New York, Daniel Guggenheim fund for the promotion of aeronautics, 1930. 57 p. diagrs.


Dispositifs de sécurité Loth destinées à permettre la conduite et l'atterrissage des avions dans la brume. Les Ailes, Nov. 28, 1929. illus.


Doolittle did it. Western flying, Los Angeles, Nov. 1929, v. 6, no. 5, p. 49, 154. illus.


La Méthode Rougerie de pilotage sans visibilité. L'Aérophile, June, July 1929, v. 37, no. 11-12, 13-14, p. 165, 214-15. illus.


Solving the problem of fog flying. New York City, The Daniel Guggenheim fund for the promotion of aeronautics, inc., 1929.


Navigación sin visión de tierra en niebla y sobre nubes, por Hermann Roder. Icaro, Madrid, Nov. 1928, no. 11, p. 323-331.


Le Pilotage des avions sans visibilité extérieure. La Vie aérienne, June 1, 1928, v. 13, no. 88, p. 22-26.


The Drift of an aircraft guided towards its destination by directional receiving of radio signals transmitted from the ground, by E. F. Warner. Washington, 1925. 5 p. illus. (N.A.C.A. Technical notes no. 220)

Radio compass to guide airmen through cloud and fog. Aero digest, June 1925, v. 6, no. 1, p. 50.
Indicatore elettrico di rilevamenti presi da stazioni radio-geometriche per atterraggio di velivoli in tempo di nebbia. Rivista Marconi, Genova, 1924. illus.


Cables to guide aircraft flying in fog. Literary digest, Apr. 22, 1922, v. 73, p. 71-73. diagr.


Guiding airplanes through fog. Aviation, Mar. 6, 1922, v. 12, no. 10, p. 279.


Aircraft instruments for blind flying. Aviation, Feb. 1, 1919, v. 6, no. 1, p. 22.
Part II

BIBLIOGRAPHY ON THE AUTOMATIC PILOT


Development and principles of a gyropilot, by P. R. Bassett. Instruments, Pittsburgh, Pa., Sep. 1936, v. 9, no. 9, p. 251-54.

Avec les girouettes les avions qui volent seuls. Les Ailes, Paris, Aug. 27, 1936, v. 16, no. 793, p. 3.


Automatic landings; device to tie up radio landing aids with automatic piloting. Aviation, June 1936, v. 35, p. 53.
Air line develops robot landing. Automotive industries, Pittsburgh, Pa., May 16, 1936, p. 666. illus.


The Beeson automatic control. Aero digest, New York, July 1933, v. 23, p. 44. illus.


And now comes the automatic robot pilot, by K. H. Kahle. Southern aviation, May 1933, p. 15.


Étude sur le pilotage automatique des avions, par A. Étevé. La Science aérienne, Mar.-Apr. 1933. 40 p. diagrs., illus.


Gyroscope, its laws and mysteries, by F. Bodde. Tientsin-Peiping, China, Peiyang press, 1933. 23 p. diagrs.


La Applicazioni del giroscopio sul mare e nell'aria, di Fausto M. Leva. Rivista aeronautica, Roma, Sep. 1931, v. 7, no. 9, p. 393-402. diagrs., illus.

Controlling a gyro stabilizer, by E. Frisch. Electric journal, July 1931, v. 28, p. 408-10. diagrs., illus.

An Approach to automatic flight. Western flying, Los Angeles, May 1931, v. 9, no. 5, p. 31.


Pilotless plane to tour country. Popular science, May 1931, v. 118, p. 71. diagrs., illus.


Teaching the robot to think ahead, by A. Osbourne. Chemical and metallurgical engineering, Apr. 1931, v. 38, no. 4, p. 245-47. illus.


Device for the automatic control of airplanes, by Alfred Gradenwitz. Washington, 1929. 6 p. illus. (N.A.A.F.A. Technical memorandums no. 495) (From Der Motorwagen, Mar. 31, 1928)


Motorische flugzeugsteuerung, von Hans Boykow. (In Jahrbuch der Wissenschaftlichen gesellschaft für luftfahrt E.V. (WGL) München und Berlín, Verlag von R. Oldenbourg, 1927, p. 91-96. illus.)


Automatic steering, by Elmer Ambrose Sperry. Society of Naval architects and marine engineers. Advance paper no. 1 for meeting Nov. 8-9, 1922. 6 p. illus.

(Also Flight, London, Aug. 10, 1922, p. 456)


The Aveline automatic airplane control. Aviation, New York, Mar. 21, 1921, v. 10, no. 12, p. 363-64. diagr.


The Sperry automatic pilot, by Lawrence B. Sperry. Flying, Sep. 1916. illus.


Gyrostatic control applied to aeroplanes. Aero and Hydro, Chicago, June 13, 1914, v. 8, no. 11, p. 136.


Trying a gyroscope stabilizer. Aeronautics, New York, Nov. 1913, v. 13, no. 5, p. 82. illus.


Engineering application of the gyroscope, by Elmer Ambrose Sperry. Journal of the Franklin institute, May 1913, v. 175, p. 474-82. illus.


Maintaining the stability of aeroplanes by means of gyroscopes. Scientific american, New York, July 22, 1911, v. 105, no. 4, p. 82. illus.


PART III

BIBLIOGRAPHY ON ICE FORMATION

Ice formation found big hazard in aviation. Popular mechanics, July 1937, v. 68, p. 70-71. diagrs., illus.


Exit the villain - ice, by Fred L. Hatoom. Western flying, Los Angeles, Nov. 1936, p. 16-17. illus.
Installation of de-icer equipment for winter airline service,
by Fred L. Hattoom. Aero digest, New York, Nov. 1936,
v. 29, no. 5, p. 38. illus.

Heater to prevent ice formation on the wings. Automotive
diagr.

Airplane de-icer. India rubber world, New York, Sep. 1, 1936,
v. 94, p. 57. illus.

Massnahmen gegen vereisung. Luftwissen, Sep. 1936, v. 3, no. 9,
p. 264.

Airplane de-icing preparation; U.S. patent. India rubber world,

Licking the icing menace, by J. P. Eames. Western flying,
Los Angeles, Aug. 1936, v. 8-10, 38. illus.

No ice today, by J. Frye. U.S. Air services, Washington,

Weather hazards; ice hazards, by W. H. Wenstrom. Aero digest,
June 1936, v. 28, p. 22. illus.

Ice and what is being done about it, by S. P. Johnston.

De-icing the propeller, by Alexander Klemin. Scientific

Dissipation of carburetor ice; newly developed stabilized
alcohol-gasoline fuel, by C. C. Callis. Aero digest,

Ice formation in air travel, by W. Polte and H. Noth. Aero

Carburetor ice eliminator. Aero digest, New York, Feb. 1936,
v. 28, p. 61. diagrs.

La Navigazione aerea - Le formazione di ghiaccio, di Valentino
Pivetti. Rivista aeronautica, Roma, Feb. 1936, v. 12,

The "Slinger-ring" de-icer for propellers, by P. T. W. Scott.
illus.

Freezing in carburetors, by A. Swan. Aircraft engineering,
Jan. 1936, v. 8, no. 83, p. 3-6.

The Prevention of ice accretion, by B. Lockspeiser. Journal
(Also Flight, Nov. 14, 1935, v. 28, no. 1403, p. 510-12;
Aircraft engineering, Nov. 1935, v. 7, no. 91, p. 278-81
and Luftwissen, 1935, v. 2, no. 11, p. 211-12)


Northwest airlines install de-icers on all planes over the route Chicago-St. Paul-Seattle. Western flying, Los Angeles, 1935, p. 45.


Eliminating the ice hazard. A study of the phenomenon of the formation of ice on airplanes in flight and the means to combat and prevent it, by Conrad H. Biddlecombe and Benjamin Weisberg. Aviation engineering, East Stroudsburg, Pa., Sep. 1932, v. 7, no. 3, p. 7-9, 33. illus.


Goodrich de-icers perfected for airplanes. Southern aviation, Atlanta, Ga., May 1932, p. 31.


Protecting airplanes from ice, by W. L. Smith. A.S.M.E. advance paper for meeting June 6-8, 1932. 1 p.

Overshoes free airplanes of ice. Compressed air magazine, Nov. 1931, v. 36, p. 3634. illus.


Tegen ijsaanzetting. Het Vliegveld, Amsterdam, June 1931, v. 15, no. 6, p. 196. illus.

To cure the ice hazard in aviation. Literary digest, May 30, 1931, v. 109, p. 30.

Goodrich airplane de-icers. Aero digest, May 1931, v. 18, no. 5, p. 66. illus.


Die Eisbildung am flugzeug während des fluges, von O. Heitmanek. Schweizer aero revue, Mar. 15, 1931, v. 6, no. 6, p. 72-75. illus.


Tulsa inventor patents wing ice eliminator, by Sherman J. Kline. Southern aviation, Atlanta, Ga., Feb. 1931, v. 2, no. 6, p. 43. illus.


Aviation weather hazards. Monthly weather review, June 1930, v. 58, no. 6, p. 231-234.

Supersaturation and icing of airplanes, by W. J. Humphreys. Monthly weather review, June 1930, v. 58, no. 6, p. 245-46.


De Vorming van ijs op blootgestelde deelen van een vliegtuig in de vlucht, door Thomas Carroll en William H. McAvoy. Het Vliegveld, Amsterdam, May 1929, v. 13, no. 3, p. 84-86. illus.


Adhesion of ice research, by H. T. Barnes. Washington, National research council, 1929.


Ice formation on airplanes, by E. Heßner. District of Beeskow, Lindenber, aeronautical observatory meteorological service, 1928. (Report no. 25)

Performance of air-speed tubes exposed to rain drops and freezing rain. Washington, U. S. Govt. print. off., 1928. diagrs., illus., tables. (Air service information circular no. 549)

<table>
<thead>
<tr>
<th>Name</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allen, Edmund T.</td>
<td>16,20</td>
</tr>
<tr>
<td>Allen, H. H.</td>
<td>37</td>
</tr>
<tr>
<td>Anderson, S. H.</td>
<td>12,17</td>
</tr>
<tr>
<td>Andrus, C. G.</td>
<td>41,42</td>
</tr>
<tr>
<td>Ansacac, Louis</td>
<td>5,7</td>
</tr>
<tr>
<td>Babson, William</td>
<td>10</td>
</tr>
<tr>
<td>Baker, Will, C.</td>
<td>31</td>
</tr>
<tr>
<td>Barcus, W. G.</td>
<td>9</td>
</tr>
<tr>
<td>Barns, H. T.</td>
<td>42</td>
</tr>
<tr>
<td>Barrie, Allen, A.</td>
<td>10</td>
</tr>
<tr>
<td>Bartow, J. B.</td>
<td>1</td>
</tr>
<tr>
<td>Bassett, P. R.</td>
<td>22,24,27,29</td>
</tr>
<tr>
<td>Basso, L.</td>
<td>23,26</td>
</tr>
<tr>
<td>Baumann, K.</td>
<td>3,4</td>
</tr>
<tr>
<td>Beth, H. E.</td>
<td>30</td>
</tr>
<tr>
<td>Biddlecombe, Conrad H.</td>
<td>32</td>
</tr>
<tr>
<td>Bigelow, Paul W.</td>
<td>13,26</td>
</tr>
<tr>
<td>Blanchard, J.</td>
<td>7,16</td>
</tr>
<tr>
<td>Blecker, W.</td>
<td>34,39</td>
</tr>
<tr>
<td>Blee, H. H.</td>
<td>9</td>
</tr>
<tr>
<td>Bodde, F.</td>
<td>26</td>
</tr>
<tr>
<td>Bonnalis, A. F.</td>
<td>2,10</td>
</tr>
<tr>
<td>Boone, Andrew R.</td>
<td>3,13</td>
</tr>
<tr>
<td>Born, F.</td>
<td>15</td>
</tr>
<tr>
<td>Bouaghe, H. P. M.</td>
<td>31</td>
</tr>
<tr>
<td>Bouché, Henri</td>
<td>17</td>
</tr>
<tr>
<td>Bourdreaux, R. H.</td>
<td>20</td>
</tr>
<tr>
<td>Bowman, D.</td>
<td>8</td>
</tr>
<tr>
<td>Boykow, Hans</td>
<td>30</td>
</tr>
<tr>
<td>Boykow, J. M.</td>
<td>18</td>
</tr>
<tr>
<td>Boynton, A. J.</td>
<td>24</td>
</tr>
<tr>
<td>Bradbrooke, F. D.</td>
<td>12</td>
</tr>
<tr>
<td>Brombacher, W. G.</td>
<td>7</td>
</tr>
<tr>
<td>Brooks, D. B.</td>
<td>37</td>
</tr>
<tr>
<td>Brouilhet, G.</td>
<td>29</td>
</tr>
<tr>
<td>Brown, William G.</td>
<td>18</td>
</tr>
<tr>
<td>Bruce, Mrs. Victor</td>
<td>12</td>
</tr>
<tr>
<td>Brun, F.</td>
<td>8</td>
</tr>
<tr>
<td>Buchholz, H.</td>
<td>4</td>
</tr>
<tr>
<td>Buck, E.</td>
<td>7</td>
</tr>
<tr>
<td>Buckler, H.</td>
<td>17</td>
</tr>
<tr>
<td>Caldwell, C.</td>
<td>5</td>
</tr>
<tr>
<td>Callis, C. C.</td>
<td>35</td>
</tr>
<tr>
<td>Cantonl, A.</td>
<td>18</td>
</tr>
<tr>
<td>Carefoot, H. R.</td>
<td>5</td>
</tr>
<tr>
<td>Carroll, R.</td>
<td>16</td>
</tr>
<tr>
<td>Carroll, Thomas</td>
<td>41,42</td>
</tr>
<tr>
<td>Cybrelli, M.</td>
<td>10</td>
</tr>
<tr>
<td>Celler, F.</td>
<td>12</td>
</tr>
<tr>
<td>Chamagne, George</td>
<td>34</td>
</tr>
<tr>
<td>Chatley, Herbert</td>
<td>33</td>
</tr>
<tr>
<td>Clapp, V. O.</td>
<td>40</td>
</tr>
<tr>
<td>Clark, W. E.</td>
<td>32</td>
</tr>
<tr>
<td>Claudy, C. H.</td>
<td>31</td>
</tr>
<tr>
<td>Clay, William C.</td>
<td>38,40,41</td>
</tr>
<tr>
<td>Clothier, William C.</td>
<td>36,37</td>
</tr>
<tr>
<td>Clusy, H.</td>
<td>3</td>
</tr>
<tr>
<td>Cockaday, L. M.</td>
<td>3</td>
</tr>
<tr>
<td>Collings, K. B.</td>
<td>6</td>
</tr>
<tr>
<td>Colwell, R. C.</td>
<td>23,30</td>
</tr>
<tr>
<td>Cooke, C.</td>
<td>20</td>
</tr>
<tr>
<td>Cooke, P. A.</td>
<td>22</td>
</tr>
<tr>
<td>Cordeiro, F. J. B.</td>
<td>33</td>
</tr>
<tr>
<td>Courtney, W. B.</td>
<td>8</td>
</tr>
<tr>
<td>Crabtree, H.</td>
<td>33</td>
</tr>
<tr>
<td>Crane, Carl L.</td>
<td>12</td>
</tr>
<tr>
<td>Crocco, Gaetano Arturo</td>
<td>4, 9, 19</td>
</tr>
<tr>
<td>Currerrell, E. A.</td>
<td>5</td>
</tr>
<tr>
<td>Daibro, S. A.</td>
<td>3</td>
</tr>
<tr>
<td>Dantin, C.</td>
<td>13</td>
</tr>
<tr>
<td>Dapsence, P.</td>
<td>25</td>
</tr>
<tr>
<td>Deads, E.</td>
<td>15</td>
</tr>
<tr>
<td>Deimmel, R. F.</td>
<td>29</td>
</tr>
<tr>
<td>Deloie, J.</td>
<td>22</td>
</tr>
<tr>
<td>Deitman, W. H.</td>
<td>32</td>
</tr>
<tr>
<td>DeWst, J. P.</td>
<td>3</td>
</tr>
<tr>
<td>Diamond, Harry</td>
<td>8,9,11</td>
</tr>
<tr>
<td>Doolittle, James H.</td>
<td>16,17,19</td>
</tr>
<tr>
<td>Dondally</td>
<td>2</td>
</tr>
<tr>
<td>Dunmore, F. W.</td>
<td>11,13,14,15</td>
</tr>
<tr>
<td>Dunnore, F. W.</td>
<td>13,20</td>
</tr>
<tr>
<td>Ducout, M. S.</td>
<td>24</td>
</tr>
<tr>
<td>Eames, J. F.</td>
<td>35</td>
</tr>
<tr>
<td>Entwistle, F.</td>
<td>20</td>
</tr>
<tr>
<td>Eteve, A.</td>
<td>26,27,28</td>
</tr>
<tr>
<td>Ettinger, A.</td>
<td>3</td>
</tr>
<tr>
<td>Everling, E.</td>
<td>5,11</td>
</tr>
<tr>
<td>Fassbender, H.</td>
<td>15</td>
</tr>
<tr>
<td>Felix, J.</td>
<td>30</td>
</tr>
<tr>
<td>Ferry, Ervin Sidney</td>
<td>26</td>
</tr>
<tr>
<td>Fiamberti, A.</td>
<td>23</td>
</tr>
<tr>
<td>Field, K.</td>
<td>13</td>
</tr>
<tr>
<td>Fieux, E. J.</td>
<td>29,30</td>
</tr>
<tr>
<td>Finch, Volney C.</td>
<td>13</td>
</tr>
<tr>
<td>Fisher, G. R.</td>
<td>14</td>
</tr>
<tr>
<td>Fitz, J. A.</td>
<td>26,27</td>
</tr>
<tr>
<td>Foyre, L. de</td>
<td>3</td>
</tr>
<tr>
<td>Foge, G.</td>
<td>10</td>
</tr>
<tr>
<td>Frachet, A.</td>
<td>19</td>
</tr>
<tr>
<td>Franck, P.</td>
<td>19</td>
</tr>
<tr>
<td>Frisch, E.</td>
<td>28</td>
</tr>
<tr>
<td>Fromy, E.</td>
<td>3</td>
</tr>
<tr>
<td>Frye, J.</td>
<td>35</td>
</tr>
<tr>
<td>Gardner, C. E.</td>
<td>9</td>
</tr>
<tr>
<td>Garratt, G. R. M.</td>
<td>23,24,25</td>
</tr>
<tr>
<td>Name</td>
<td>Pages</td>
</tr>
<tr>
<td>----------------------</td>
<td>-------</td>
</tr>
<tr>
<td>Geer, William C.</td>
<td>37, 38, 41</td>
</tr>
<tr>
<td>Gibbons, A. E.</td>
<td>6</td>
</tr>
<tr>
<td>Gloeckner, M. Heinrich</td>
<td>11, 12</td>
</tr>
<tr>
<td>Goldbach, Georg</td>
<td>35</td>
</tr>
<tr>
<td>Gradenwitl, Alfred</td>
<td>24, 29</td>
</tr>
<tr>
<td>Gray, A.</td>
<td>32, 33</td>
</tr>
<tr>
<td>Gray, George W.</td>
<td>12</td>
</tr>
<tr>
<td>Gray, J. G.</td>
<td>32</td>
</tr>
<tr>
<td>Greenhill, George</td>
<td>32</td>
</tr>
<tr>
<td>Greig, D.</td>
<td>33</td>
</tr>
<tr>
<td>Griffiths, E.</td>
<td>22</td>
</tr>
<tr>
<td>Gromoll, H.</td>
<td>10</td>
</tr>
<tr>
<td>Hall, N. I.</td>
<td>23</td>
</tr>
<tr>
<td>Hammerstein, H.</td>
<td>20</td>
</tr>
<tr>
<td>Handel, P. Von</td>
<td>6</td>
</tr>
<tr>
<td>Harrison, D. W.</td>
<td>22</td>
</tr>
<tr>
<td>Hattoom, Fred L.</td>
<td>34, 35</td>
</tr>
<tr>
<td>Haus, Fr.</td>
<td>23</td>
</tr>
<tr>
<td>Haussen, A.</td>
<td>35</td>
</tr>
<tr>
<td>Haushalter, F. L.</td>
<td>39</td>
</tr>
<tr>
<td>Hebner, E.</td>
<td>42</td>
</tr>
<tr>
<td>Hegenerberger, A. F.</td>
<td>19</td>
</tr>
<tr>
<td>Heymanek, O.</td>
<td>39</td>
</tr>
<tr>
<td>Hill, E. L.</td>
<td>29</td>
</tr>
<tr>
<td>Hill, F. W.</td>
<td>24</td>
</tr>
<tr>
<td>Hohmann, W.</td>
<td>25</td>
</tr>
<tr>
<td>Holland, Harvey H.</td>
<td>15</td>
</tr>
<tr>
<td>Hoover, J. R.</td>
<td>39</td>
</tr>
<tr>
<td>Hoover, Jr., H.</td>
<td>16</td>
</tr>
<tr>
<td>Horn Weems, Philip van</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>15, 17</td>
</tr>
<tr>
<td>Hort, Wilhelm</td>
<td>31</td>
</tr>
<tr>
<td>Houghton, H. G.</td>
<td>6</td>
</tr>
<tr>
<td>Hubbard, H. D.</td>
<td>17</td>
</tr>
<tr>
<td>Huggins, Marion</td>
<td>28</td>
</tr>
<tr>
<td>Humphreys, W. J.</td>
<td>40</td>
</tr>
<tr>
<td>Ide, John Jay</td>
<td>14, 32</td>
</tr>
<tr>
<td>Jablencz, C. A.</td>
<td>3</td>
</tr>
<tr>
<td>Jacobs, A. M.</td>
<td>18</td>
</tr>
<tr>
<td>Jacobshagen, H.</td>
<td>8</td>
</tr>
<tr>
<td>Jacquet, Gaëtan</td>
<td>1, 2</td>
</tr>
<tr>
<td>James, P.</td>
<td>21</td>
</tr>
<tr>
<td>James, Richard</td>
<td>17</td>
</tr>
<tr>
<td>Jamieson, L. S.</td>
<td>19</td>
</tr>
<tr>
<td>Jaunotte, J.</td>
<td>43</td>
</tr>
<tr>
<td>Jenkins, H. F.</td>
<td>6, 12</td>
</tr>
<tr>
<td>Johnson, V. E.</td>
<td>35</td>
</tr>
<tr>
<td>Johnston, S. P.</td>
<td>9, 35</td>
</tr>
<tr>
<td>Jones, Bradley,</td>
<td>5, 14, 15, 40</td>
</tr>
<tr>
<td>Jones, O. Cathcart</td>
<td>4</td>
</tr>
<tr>
<td>Jordanoff, A.</td>
<td>15</td>
</tr>
<tr>
<td>Kahle, K. H.</td>
<td>26</td>
</tr>
<tr>
<td>Kaster, R.</td>
<td>18</td>
</tr>
<tr>
<td>Kauil, B. von</td>
<td>25</td>
</tr>
<tr>
<td>Keeney, D.</td>
<td>18</td>
</tr>
<tr>
<td>Kennedy, W. Jones</td>
<td>13</td>
</tr>
<tr>
<td>Kingsford - Smith Charles</td>
<td>36</td>
</tr>
<tr>
<td>Klemin, Alexander</td>
<td>7, 10, 12, 23</td>
</tr>
<tr>
<td>Kline, Sherman J.</td>
<td>39, 40</td>
</tr>
<tr>
<td>Kopf, W.</td>
<td>42</td>
</tr>
<tr>
<td>Koppe, H.</td>
<td>41</td>
</tr>
<tr>
<td>Koppen, C. C.</td>
<td>4</td>
</tr>
<tr>
<td>Knight, Montgomery</td>
<td>41</td>
</tr>
<tr>
<td>Kramer, E.</td>
<td>4, 8</td>
</tr>
<tr>
<td>Krussi, G. G.</td>
<td>14</td>
</tr>
<tr>
<td>Laboureur, L.</td>
<td>10</td>
</tr>
<tr>
<td>Lacaine, J.</td>
<td>24</td>
</tr>
<tr>
<td>Lademann, Robert W. E.</td>
<td>20</td>
</tr>
<tr>
<td>Laird, G.</td>
<td>9, 11</td>
</tr>
<tr>
<td>Lanciani, E.</td>
<td>6</td>
</tr>
<tr>
<td>Larivière, F.</td>
<td>2, 5</td>
</tr>
<tr>
<td>Lats, C.</td>
<td>10</td>
</tr>
<tr>
<td>Légèlise, Pierre</td>
<td>26</td>
</tr>
<tr>
<td>Lesure, H.</td>
<td>22</td>
</tr>
<tr>
<td>Leva, Fausto, M.</td>
<td>28</td>
</tr>
<tr>
<td>Levy, H. H.</td>
<td>15</td>
</tr>
<tr>
<td>Lewis, II, H. L.</td>
<td>5, 6, 8</td>
</tr>
<tr>
<td>Llave, Joaquin de la</td>
<td>16</td>
</tr>
<tr>
<td>Lockspeiser, B.</td>
<td>35</td>
</tr>
<tr>
<td>Mabry, F. S.</td>
<td>8</td>
</tr>
<tr>
<td>McAdie, Alexander</td>
<td>42</td>
</tr>
<tr>
<td>McAvoy-William, H.</td>
<td>41, 42</td>
</tr>
<tr>
<td>McNeal, D.</td>
<td>34</td>
</tr>
<tr>
<td>Marcotti, Edward</td>
<td>30</td>
</tr>
<tr>
<td>Marmonnier, L.</td>
<td>33</td>
</tr>
<tr>
<td>Marolles, R. J. de</td>
<td>27</td>
</tr>
<tr>
<td>Martin, R.</td>
<td>8</td>
</tr>
<tr>
<td>Mason, G.</td>
<td>9</td>
</tr>
<tr>
<td>Mathieu, M.</td>
<td>27</td>
</tr>
<tr>
<td>Matthias, Joachim</td>
<td>24</td>
</tr>
<tr>
<td>Meredith, F. W.</td>
<td>14, 22</td>
</tr>
<tr>
<td>Minser, E. J.</td>
<td>36, 37</td>
</tr>
<tr>
<td>Mloche, R.</td>
<td>30</td>
</tr>
<tr>
<td>Mittereff, S. D.</td>
<td>23</td>
</tr>
<tr>
<td>Möller, W.</td>
<td>28</td>
</tr>
<tr>
<td>Monk, F. V.</td>
<td>7</td>
</tr>
<tr>
<td>Morris, F. D.</td>
<td>23</td>
</tr>
<tr>
<td>Morrison, I. F.</td>
<td>31</td>
</tr>
<tr>
<td>Moser, W.</td>
<td>1</td>
</tr>
<tr>
<td>Myers, G. I.</td>
<td>6, 16</td>
</tr>
<tr>
<td>Neely, F. R.</td>
<td>42</td>
</tr>
<tr>
<td>Newkirk, B. L.</td>
<td>32</td>
</tr>
<tr>
<td>Nixon, B.</td>
<td>7</td>
</tr>
<tr>
<td>Nohaseckeck, Heinrich</td>
<td>40</td>
</tr>
<tr>
<td>Noth, H.</td>
<td>35, 36, 41</td>
</tr>
<tr>
<td>Noville, George O.</td>
<td>39</td>
</tr>
<tr>
<td>Ocker, William C.</td>
<td>7, 11, 12</td>
</tr>
<tr>
<td></td>
<td>13, 15</td>
</tr>
<tr>
<td>Offermann, E. v.</td>
<td>17</td>
</tr>
<tr>
<td>Osbourne, A.</td>
<td>28</td>
</tr>
<tr>
<td>Page, A.</td>
<td>15</td>
</tr>
<tr>
<td>Name</td>
<td>Page Numbers</td>
</tr>
<tr>
<td>---------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Pallavicino, C.</td>
<td>12</td>
</tr>
<tr>
<td>Pendray, C. Edward</td>
<td>8</td>
</tr>
<tr>
<td>Penn, R. J.</td>
<td>41</td>
</tr>
<tr>
<td>Peppler, W.</td>
<td>43</td>
</tr>
<tr>
<td>Perry, J.</td>
<td>29</td>
</tr>
<tr>
<td>Pivetti, Valentino</td>
<td>35</td>
</tr>
<tr>
<td>Polte, W.</td>
<td>11, 35, 36</td>
</tr>
<tr>
<td>Pretzel, Dr.</td>
<td>7</td>
</tr>
<tr>
<td>Priester, A. A.</td>
<td>10</td>
</tr>
<tr>
<td>Purdy, N. S.</td>
<td>30</td>
</tr>
<tr>
<td>Ramsey, Logan Carlisle</td>
<td>17, 19</td>
</tr>
<tr>
<td>Redman, L. A.</td>
<td>30</td>
</tr>
<tr>
<td>Reinartz, E. G.</td>
<td>6</td>
</tr>
<tr>
<td>Reinbold, O.</td>
<td>37</td>
</tr>
<tr>
<td>Remelin, E. L.</td>
<td>14</td>
</tr>
<tr>
<td>Rice, C. W.</td>
<td>2, 11</td>
</tr>
<tr>
<td>Richardson, D. G.</td>
<td>11</td>
</tr>
<tr>
<td>Riley, John A.</td>
<td>34</td>
</tr>
<tr>
<td>Robert, Guy</td>
<td>24</td>
</tr>
<tr>
<td>Roberts, H. W.</td>
<td>1, 14</td>
</tr>
<tr>
<td>Rochford, Daniel</td>
<td>17</td>
</tr>
<tr>
<td>Roder, Hermann</td>
<td>20</td>
</tr>
<tr>
<td>Rodgers, G. C.</td>
<td>37</td>
</tr>
<tr>
<td>Rogers, Jr., E. J.</td>
<td>7</td>
</tr>
<tr>
<td>Roland, P.</td>
<td>2</td>
</tr>
<tr>
<td>Ross, J. B.</td>
<td>25</td>
</tr>
<tr>
<td>Samuels, Leroy T.</td>
<td>37</td>
</tr>
<tr>
<td>Sandwell, A. H.</td>
<td>1</td>
</tr>
<tr>
<td>Schaefer, E. B.</td>
<td>11</td>
</tr>
<tr>
<td>Schaefer, O. W.</td>
<td>39</td>
</tr>
<tr>
<td>Scheller, O.</td>
<td>19</td>
</tr>
<tr>
<td>Schilovsky, P. P.</td>
<td>30</td>
</tr>
<tr>
<td>Schinze, Gerhardt</td>
<td>38</td>
</tr>
<tr>
<td>Schippel, H. F.</td>
<td>37</td>
</tr>
<tr>
<td>Schmidt-Reps</td>
<td>11</td>
</tr>
<tr>
<td>Scholler, K.</td>
<td>30</td>
</tr>
<tr>
<td>Schwartz, Victor</td>
<td>17</td>
</tr>
<tr>
<td>Scott, P. T. W.</td>
<td>35</td>
</tr>
<tr>
<td>Seklikoff, W.</td>
<td>9</td>
</tr>
<tr>
<td>Smith</td>
<td>27</td>
</tr>
<tr>
<td>Smith, Eugene</td>
<td>1</td>
</tr>
<tr>
<td>Smith, Wesley L.</td>
<td>39, 41</td>
</tr>
</tbody>
</table>

Spangler, S. B.          36
Sperry, Lawrence B.      32
Sperry, Jr., Elmer Ambrose 27, 29, 31, 33
Sprigg, T. S.            13
Stark, Howard Cyrus 7, 8, 9, 10
Steiner, R. O.           40
Stephens, J. B.          12
Stewart, C. J.           13, 14
Stone, J. H.             32
Studley, E.              4
StuesseI, R.             6
Swan, A.                 35
Talman, Charles Fitzhugh 38, 42
Taylor, H. A.            4, 5
Tea, P. L.               27
Tomlinson, D. W.         11
Thauss, A.               25
Theodorson, Theodore     38, 40
Thomas, T. R.            32
Triest, C. G.            1
Upson, Ralph H.          10, 11
Verdurand, A.            16
Vigneron, H.             34
Volta, H.                32
Warlenta, I.             11
Warner, E. P.            20
Watt, R. A. W.           3
Wead, F. W.              20
Webb, L. D.              9
Weber, K.                13
Wegener, H.              37
Wagner, Kurt             40
Waisberg, Benjamin       32
Wenstrom, W. H.          2, 33
Westendorp, W. F.        13
Whitaker, O. B.          16
Williams, J. H.          8
Winter, H. T.            7
Winters, S. R.           19
Wool, R. S.              21
Young, C. M.             9