

Biographical datas:

Mieczysław Władysław Wolfke, born on May 29th 1883 in Lask /Poland/, son of Karol Wolfke, engineer and his wife, Lucyna Kościńska.

University studies:

- 1) 1902 - 1904 - Technical Faculty of the Liège University.
- 2) 1904 - 1907 - Faculty of Physics and Mathematics of the Paris University.
- 3) 1907 - 1910 - Institute of Physics of the Wrocław University.

University degrees:

- 4) 1910 - graduated as Master of Science and Philosophy Doctor with distinction for his doctor's thesis at the Wrocław University.
- 5) 1913 - habilitation in theoretical physics at the Zurich Higher Technical School.
- 6) 1914 - habilitation in experimental physics at the Zurich University.

Posts:

- 7) 1911 - scientific worker at the optical Works Carl Zeiss" in Jena.
- 8) 1912 - chief assistant to the professor of physics at the High Technical School in Karlsruhe.
- 9) 1913 - 1922 - assistant professorship and lectures at the Zurich High Technical School.
- 10) 1914 - 1922 - assistant professorship and lectures at the Zurich University.
- 11) 1920 - appointment /not accepted/ for the chair of professor of theoretical physics at the Warsaw University.
- 12) 1922 - to the present day - professor and director of the Physical Laboratory at the Warsaw High Technical School.

During the war - secret teaching at the Warsaw High Technical School.

Scientific Works:

I have published about 100 original scientific works in different languages /polish, english, french, german and dutch/ concerning theoretical and experimental physics.

The most important of my works are the following:

"Über die Abbildung eines Gitters bei künstlicher Begrenzung" Doctor thesis, Wroclaw 1910, /Ann.d. Phys. 1911/.

"Allgemeine Abbildungstheorie selbstleuchtender und nichtselbstleuchtender Objekte" habilitation thesis, Zurich 1913 /Ann.d. Phys. 1912/.

"Einsteinsche Lichtquanten und räumliche Struktur der Strahlung" /Phys. Z.S. 1921/.

"Spannungsmessungen am Teslatransformator" /Phys. Z.S. 1923/ - mentioned by G. Breit, M.A. Tuve and O. Dahl /Phys. Rev. 35, 51, 1930/.

I have discovered together with prof. Keesom a new phenomenon of two different stades of liquid helium /He II/ /C.R. 185, 1465, 1927 Leiden Comm. 190. b./

1924 - I suggested to prof. Kamerlingh Onnes a new method of solidifying helium under pressure, by means of which prof. Keesom solidified helium in 1926.

1937 - I have ascertained and measured for the first time the phenomenon of magnetostiction in fluid oxygen /Acta Phys. Polon. 6. 278. 1937. 7. 81. 1938./

I have besides acted as scientific and technical adviser:

Brown, Boveri Co. in Baden /Switzerland/ and in other technical branches.

Distinctions:

- 1917 - membership of Schweiz. Naturforschende Gesellschaft.
- 1923 - membership of the Technical Sciences Academy of Warsaw, since 1935 I was Chairman of the Physical and Mathematical Section of this Academy.
- 1925 - membership of the Kamerlingh Onnes Committee of the International Refrigeration Institute.
- 1927 - membership of the Warsaw Society of Learning, ~~Warsaw~~.
- 1927 - 1928 - gr. Ith Sekretary of gr. Loge of Poland.
- 1931 - Member of Supr. Council 33. of Poland.
- 1931 - 1934 - gr. Master of gr. Loge of Poland. ~~Warsaw~~.
- 1932 - membership of the Polish Academy of Learning in Cracow.
- 1933 - decorated with the order of Polonia Restituta", 3th class.

1937 - 1939 - Chairman of the Scientific Committee for organisation of Polish Stratospheric Flight.

1939 - At the International Exhibition of New York in the Polish Pavillon there were to be found tables showing my discoveries in the low temperature.

Besides of it, I am member of many other scientific societies in Poland and abroad. From 1930 to 1934 I was chairman of the Polish Physical Society.

I am a membership of the ~~Young~~⁴ Men Christ. Ass. in Warsaw. More detailed biographical datas about me can be found in the publication "Who is who for Europe" as well as in the "Encyclopedia Britannica".

LIST OF SOME SELECTED SCIENTIFIC PUBLICATIONS.

"L'électron considéré comme un centre des pressions dans l'éther"
Eclairage Electr. 1907.

"Interaction entre circuits fermés à courants continus"
Helv. Phys. Acta 11. 156. (1938). Acta Phys. Polon. 7. 10. (1938).

"Ueber die Abbildung eines Gitters bei künstlicher Begrenzung"
Ann. d. Phys. (4) 34. 377. (1911).

"Ueber die Abbildung eines Gitters bei asymmetrischer Ablendung"
Ann. d. Phys. (4) 37. 96. (1912).

"Ueber die Abbildung eines durchlässigen Gitters"
Ann. d. Phys. (4) 37. 797.; 38. 385. (1912).

"Allgemeine Abbildungstheorie selbstleuchtender und nichtselbstleuchtender
Objekte"
Ann. d. Phys. (4) 39. 569. (1912).

"Ueber die Abbildung eines Gitters ausserhalb der Einstellebene"
Ann. d. Phys. (4) 40. 194. (1913).

"Sur un nouveau théorème de la théorie des images optiques et la possibilité
de produire des images optiques des réseaux moléculaires"
Arch. sc. phys. et nat. (5) 2. 254. (1920). Phys. ZS. 21. 495. (1920).

"Ueber eine neue Metallampflampe mit weissem Licht"
E.T.Z. 33. 917. (1912).

"Ueber eine neue Quarzlampe"
Verh. d. D. Phys. Ges. 19. 239. (1917).

"Ueber den Wirkungsgrad des Moore-Lichtes"
Arch. de Genève 46. 53. (1918).

"Sur l'ionisation spontanée en vas clos"
Le Radium 10. 265. (1913).

"Stossionisation der Gase durch Wärmebewegung"
Phys. ZS. 18. 34. (1917).

"Ueber den Assoziationsgrad in flüssigen Dielektrika"
Helv. Phys. Acta 1. 443. (1928). Phys. ZS. 29. 713. (1928).

"Une théorie de l'association dans les diélectriques liquides"
C.R. Soc. Polon. de Physique 5. 157. (1930).

"Ueber die Mehrfache Assoziation in flüssigen Dielektrika"
Phys. ZS. 31. 498. (1930).

"Sur le rôle du hasard dans les phénomènes radioactifs"
C.R. Soc. Polon. de Phys. 4. 311. (1929). Phys. ZS. 30. 899. (1929).

"Eine neue Versuchsmethode zur Aufdeckung des Neutrinos"
Bull. int. Acad. Polon. (A) 19. (1935).

"Ueber den Wirkungsquerschnitt des Neutrinos"
Bull. int. Acad. Polon. (A) 107. (1935).

"Les électrons secondaires du Neutrino"
Acta Phys. Polon. 4. 177. (1935).

"Zur Quantentheorie". Erste, zweite u. dritte vorläufige Mitteilung.
Verh. d. D. Phys. Ges. 15. 1123. 1215. (1913); 16. 4. (1914).

"Welche Strahlungsformel folgt aus der Annahme der Lichtatome?"
Phys. ZS. 15. 308. 463. (1914).

"Einsteinsche Lichtquanten und räumliche Struktur der Strahlung"
Phys. ZS. 22. 375. (1921). Arch. sc. phys. et nat. (5) 3. 320. (1921).

"Bemerkung zu 'Statistische Deutung zur Einsteinschen Ableitung des Planckschen Gesetzes' von R.C. Majumdar und D.S. Kothari in Allahabad"
ZS. f. Phys. 61. 725. (1930).

~~"On the Multi-Photons" (1946).~~ *"Über die Mehrfachquanten des in der Planckschen Strahlung"* Verh. 7. Naturf. Ges. Schweiz, Naturf. Ges. Zürich 1946.

"Ueber die Verknüpfung des Sommerfeldschen Wirkungsprinzips mit der Planckschen Quantentheorie"
Phys. ZS. 16. 207. (1915).

"Strahlungseigenschaften des Debyeschen Modells eines Wasserstoffsmols"
Phys. ZS. 17. 71. (1916).

"Zum Bohrschen Atommodell"
Phys. ZS. 17. 198. (1916).

"Zur Quantentheorie des Viellinienspektrums des Wasserstoffes"
Mitt. Phys. Ges. Zürich 94. (1919). Phys. ZS. 21. 407. (1920).

- "/ "Ueber Schwärzungsparabeln der Kanalstrahlen auf Trockenplatten"
Phys. ZS. 18. 128. (1917).
- "/ "Eine Solarisationsmethode zur Messung der Zerstreuung der Kanalstrahlen"
Verh. d. D. Phys. Ges. 19. 111. (1917).
- "/ "Ueber einen neue Sekundärstrahlung der Kanalstrahlen"
Phys. ZS. 18. 479. (1917); 19. 205. (1918). Phil. Mag. (6) 36. 270. (1918).
Arch. d. Genève 46. 51. (1918).
- "/ "Ueber Umkehrungen der Gleichstromkomponente bei geblasenen Funkenstrecken"
Phys. ZS. 22. 123. (1921).
- "/ "Spannungsmessungen am Teslatransformator"
Phys. ZS. 24. 249. 303. (1923).
- "/ "Sur l'émission positive du palladium" (with J. Rolinski)
C.R. Soc. Polon. de Phys. 4. 353. (1929). Phys. ZS. 30. 817. (1929).
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- X "On the dielectric constants of liquid and solid hydrogen" (with H. Kamerlingh
Onnes)
~~Proc. Amsterdam~~ 27. 627. (1924). Comm. Leiden 171 c!
- X "On the dielectric constant of liquid helium" (with H. Kamerlingh Onnes)
~~Proc. Amsterdam~~ 27. 621. (1924). Comm. Leiden 171 b.
- X "On the change of the dielectric constant of liquid helium with the tempera-
ture" (with W.H. Keesom)
~~Proc. Amsterdam~~ 31. 81. (1928). Comm. Leiden 190 a.
- X "New measurements about the way in which the dielectric constant of liquid
helium depends on the temperature" (with W.H. Keesom)
~~Proc. Amsterdam~~ 31. 800. (1928). Comm. Leiden 192 a. *Ann. Acad. Sci. techn.*
Varsovie, 3. 229. (1936).
- X "On the electrical resistance of liquid helium" (with W.H. Keesom)
Physica 3. 823. (1936). Comm. Leiden 242 f.
- (1937)*
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"Adiabatische Magnetostriktion des flüssigen Sauerstoffes"
Acta Phys. Polon. 6. 278. (1937). *Helv. Phys. Acta* 10. 506. (1937).
Ann. Acad. Sc. techn. de Varsovie 4. 162. (1937).
- "/ "Weitere Versuche über die Magnetostriktion des flüssigen Sauerstoffes"
Acta Phys. Polon. 7. 81. (1938).
- "Deux états liquides différents de l'hélium" (with W.H. Keesom)
C.R. 185. 1465.; 186. 331. (1928).
- X "Two different liquid states of helium" (with W.H. Keesom)
~~Proc. Amsterdam~~ 31. 90. (1928). Comm. Leiden 190 b.
Proc. roy. Acad. Amsterdam

"Ueber die Dielektrizitätskonstante und den Umwandlungspunkt zweier verschiedener Modifikationen des flüssigen Heliums".
Verh. d. D. Phys. Ges. (3) 9. 60. (1928). Helv. Phys. Acta 1. 446. (1928).

"Sur les deux états différents de l'hélium liquide"
Ann. Acad. Sc. techn. Varsovie 3. 133. (1935). Acta Phys. Polon. 6. 68. (1935)

"Ueber das Helium II als feste Phase"
Ann. Acad. Sc. techn. Varsovie 3. 207. (1936).

"Ueber die Möglichkeit zweier verschiedener Zustände des festen Heliums"
Ann. Acad. Sc. techn. Varsovie 6. 14. (1939).

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