

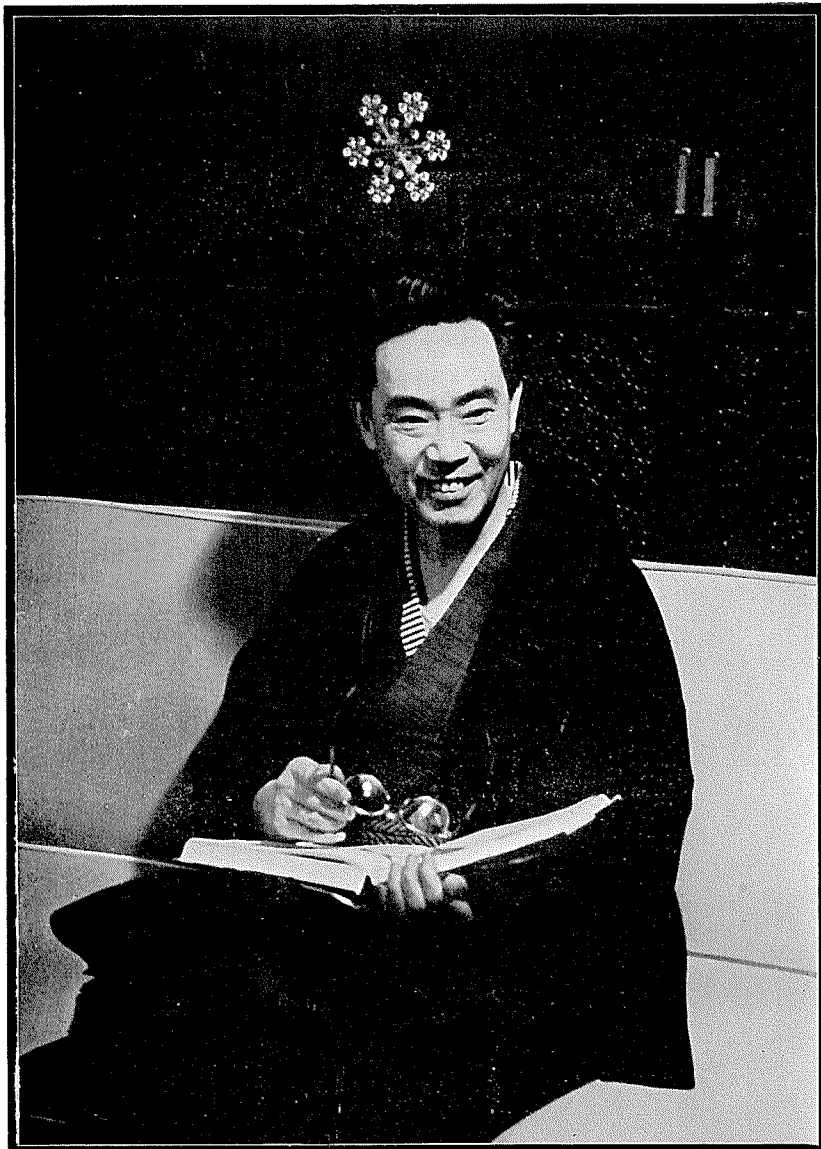


HOKKAIDO UNIVERSITY

| | |
|------------------|---|
| Title | List of research work publication in English |
| Author(s) | Nakaya, Ukichiro |
| Citation | Journal of the Faculty of Science, Hokkaido University. Series 7, Geophysics, 1(6), 367-371 |
| Issue Date | 1963-03-25 |
| Doc URL | https://hdl.handle.net/2115/8920 |
| Type | departmental bulletin paper |
| File Information | 1(6).pdf |



Ukichiro Nakaya



The late Dr. Ukichiro Nakaya, Professor, Hokkaido University, internationally known physicist and meteorologist. (Photographed by Mr. Tanuma, Sun Telephoto. Comp.)

Dr. Ukichiro Nakaya died of a cancer of the medulla on 11 April 1962. He left not only unique scientific works as listed in the following page, but many excellent essays.

He was particularly famous for his study on snow crystals.

List of Research Work Publications in English

by Prof. U. NAKAYA

1. Mechanism of Lightning Discharge. (with T. Terada and K. Yumoto) Proc. Imp. Academy, **2**, pp. 15-16, (1926)
2. A Preliminary Note on the Form and Structure of Long Spark. (with T. Terada) Proc. Imp. Academy, **2**, pp. 258-260, (1926)
3. Preliminary Note on the Spectroscopic Investigations of Long Electric Sparks. (with Y. Fujioka) Proc. Imp. Academy, **2**, pp. 536-538, (1926)
4. Some Experiments on Spark Discharge in Heterogeneous Media—A Hint on the Mechanism of Lightening Discharge. (with T. Terada and K. Yumoto) Sci. Papers Inst. Phys. Chem. Res., **4**, pp. 129-160, (1926),
5. Monthly Normals of Isobars in Japan at the Height of 3000 Meters. Jour. Fac. Sci., Tokyo Univ., **1**, pp. 301-311, (1927).
6. A Physical Investigation on Sparks of "Senko-hanabi", a Miniature Firework. (with Y. Sekiguti) Proc. Imp. Academy, **3**, pp. 510-513, (1927)
7. Combustion of Mixtures of Hydrogen. (with T. Terada and K. Yumoto) Sci. Papers Inst. Phys. Chem. Res., **6**, pp. 81-127, (1927)
8. Experimental Studies on Form and Structure of Sparks, Part I. (with T. Terada) Sci. Papers Inst. Phys. Chem. Res., **8**, pp. 1-19, (1928)
9. Experimental Studies on Form and Structure of Sparks, Part II. (with T. Terada) Sci. Papers Inst. Phys. Chem. Res., **8**, pp. 63-82, (1928)
10. Experimental Studies on Form and Structure of Sparks, Part III. (with T. Terada) Sci. Papers Inst. Phys. Chem. Res., **8**, pp. 103-129, (1928)
11. Experimental Studies on Form and Structure of Sparks, Part IV. (with T. Terada and R. Yamamoto) Sci. Papers Inst. Phys. Chem. Res., **8**, pp. 197-213, (1928)
12. On the Mode of Areal Distribution of Gliding Sparks on a Surface Coated with Granular Conductor. Sci. Papers Inst. Phys. Chem. Res., **9**, pp. 237-258, (1928)
13. Further Note on the Spectrographic Investigation of Spark Discharge. (with Y. Fujioka) Proc. Imp. Academy, **4**, pp. 464-466, (1928)

14. On the Vapour Pressures of Binary Systems; The Aqueous Solutions of Orthophoric Acid, Sodium Hydroxide, and Potassium Hydroxide. *Transactions of the Faraday Society*, **24**, pp. 543-544, (1928)
15. Effect of an Irregular Succession of Impulses upon a Simple Vibrating System, Its Bearing upon Seismometry. (with T. Terada) *Proc. Imp. Academy*, **4**, pp. 208-210, (1928)
16. Experiments on the Effect of an Irregular Succession of Impulses upon a Simple Vibrating System. (with T. Terada) *Bull. Earthquake Research Inst. Tokyo Imp. Univ.*, **6**, pp. 93-110, (1928)
17. Experimental Studies on Form and Structure of Sparks, Part V. (with T. Terada and R. Yamamoto) *Sci. Papers Inst. Phys. Chem. Res.*, **10**, pp. 43-68, (1929)
18. Experimental Studies on Form and Structure of Sparks, Part VI. (with T. Terada and R. Yamamoto) *Sci. Papers Inst. Phys. Chem. Res.*, **10**, pp. 271-290, (1929)
19. On the Emission of Soft X-Ray by Different Elements with Reference to the Effect of Adsorbed Gas. *Proc. Roy. Soc. London*, **124**, p. 616, (1929)
20. On the Effects of the Vapours of Halogen Compounds upon the Form and Structure of Long Sparks. (with T. Terada and R. Yamamoto) *Proc. Imp. Academy*, **5**, pp. 197-199, (1929)
21. Experimental Studies on Form and Structure of Sparks, Part VII. (with T. Terada and R. Yamamoto) *Sci. Papers Inst. Phys. Chem. Res.*, **13**, pp. 207-230, (1930)
22. On Some Relations between the Form of Lichtenberg's Figure and that of its Exciting Spark. *Jour. Fac. Sci., Hokkaido Univ., Ser. II*, **1**, pp. 68-75, (1930)
23. Experimental Studies on Form and Structure of Sparks, Part VIII. (with T. Terada and R. Yamamoto) *Sci. Papers Inst. Phys. Chem. Res.*, **15**, pp. 189-217, (1931)
24. On the Electrical Nature of Iron Sparks Emitted from a Grinding Wheel. *Sci. Papers Inst. Phys. Chem. Res.*, **23**, pp. 185-201, (1934)
25. Application of Wilson Chamber to the Study of Spark Discharge. (with F. Yamasaki) *Proc. Imp. Academy*, **X**, pp. 403-406, (1934)
26. Spark Investigation by the Wilson Chamber. (with F. Yamasaki) *Nature*, **134**, pp. 496-497, (1934)
27. Snow Crystals Observed in 1933 at Sapporo and Some Relations with Meteorological Conditions. (with T. Iizima) *Jour. Fac. Sci., Hokkaido*

- Univ., Ser. II, I-5, pp. 149-162, (1934)
28. Classification and Explanation of Snow Crystals Observed in the Winter of 1933-34 at Tokati and Sapporo. (with K. Hasikura) Jour. Fac. Sci., Hokkaido Univ., Ser. II, I-6, pp. 163-180, (1934)
 29. On the Electrical Nature of Snow Particles. (with T. Terada, Jr.) Jour. Fac. Sci., Hokkaido Univ., Ser. II, I-6, pp. 181-190, (1934)
 30. Application of Wilson Chamber to the Study of Spark Discharge. (with F. Yamasaki) Proc. Roy. Soc. London, A, **148**, No. 864, pp. 446-453, (1935)
 31. On the Electrification of Dust Particles Blown by Air Blast. (with T. Terada, Jr.) Phil. Mag., Ser. 7, **XIX**, pp. 115-123, (1935)
 32. Simultaneous Observations of the Mass, Falling Velocity and Form of Individual Snow Crystals. (with T. Terada, Jr.) Jour. Fac. Sci., Hokkaido Univ., Ser. II, I-7, pp. 191-200, (1935)
 33. On the Correspondence of Snow and Rime Crystals. Jour. Fac. Sci., Hokkaido Univ., Ser. II, I-7, pp. 201-205, (1935)
 34. On the Artificial Production of Frost Crystals, with Reference to the Mechanism of Formation of Snow Crystals. (with I. Sato) Jour. Fac. Sci., Hokkaido Univ., Ser. II, I-7, pp. 206-214, (1935)
 35. Investigation on the Preliminary Stages of Spark Formation in Various Gases by the Use of the Wilson Chamber. (with F. Yamasaki) Proc. Roy. Soc. London, A, **153**, pp. 542-554, (1936)
 36. Notes on Irregular Snow Crystals and Snow Pellets. (with Y. Sekido and T. Tada) Jour. Fac. Sci., Hokkaido Univ., Ser. II, I-8, pp. 215-226, (1936)
 37. General Classification of Snow Crystals and Their Frequency of Occurrence. (with Y. Sekido) Jour. Fac. Sci., Hokkaido Univ., Ser. II, I-9, pp. 234-264, (1936)
 38. The Physics of Skiing, a Preliminary and General Survey. (with M. Tada, Y. Sekido and T. Takano) Jour. Fac. Sci., Hokkaido Univ., Ser. II, I-9, pp. 265-287, (1936)
 39. Preliminary Experiments on the Artificial Production of Snow Crystals. (with I. Sato and Y. Sekido) Jour. Fac. Sci., Hokkaido Univ., Ser. II, II-1, pp. 1-11, (1938)
 40. Further Experiments on the Artificial Production of Snow Crystals. (with T. Tada and S. Maruyama) Jour. Fac. Sci., Hokkaido Univ., Ser. II, II-1, pp. 13-57, (1938)

41. Artificial Snow. *Quart. Jour. Roy. Met. Soc.*, **LXIV**, pp. 619-624, (1938)
42. Experimental Researches on Window Hoar Crystals, a General Survey. (with M. Hanazima and K. Dezuno) *Jour. Fac. Sci., Hokkaido Univ.*, Ser. II, **III-1**, pp. 1-13, (1939)
43. Investigation of Fog. Pan Pacific Science Conference; Sydney, Australia (1948)
44. The Formation of Ice Crystals. *Compendium of Meteorology. Amer. Met. Soc.*, pp. 207-220, (1951)
45. Snow Crystal Growth. *Jour. Glaciology*, **1-10**, p. 550, (1951)
46. An Electron Microscope Study of Snow Crystal Nuclei. *Jour. Glaciology*, **2-13**, p. 176, (1953)
47. A Method of Analyzing Geothermal Data in Permafrost. SIPRE Research Papers No. 5, p. 1, (1953)
48. Evidence of the Existence of Liquidlike Film on Ice Surface. (with A. Matsumoto) SIPRE Research Papers No. 4, p. 6, (1953)
49. Formation of Snow Crystals. SIPRE Research Papers No. 3, p. 12, (1954)
50. Simple Experiments Showing the Existence of "Liquid Water" Film on the Ice Surface. (with A. Matsumoto) *Jour. of Colloid Science*, **9-1**, pp. 41-49, (1954)
51. Electron-microscope Studies on the Nuclei of Sea Fog and Snow Crystals. Artificial Stimulation of Rain, Pergamon Press, pp. 36-42, (1955)
52. Physical Investigations of Snow Flakes. Artificial Stimulation of Rain, Pergamon Press, pp. 327-331, (1955)
53. Surface Nature of Ice Crystals. Artificial Stimulation of Rain, Pergamon Press, pp. 386-389, (1955)
54. Snow Crystals and Aerosols. *Jour. Fac. Sci., Hokkaido Univ.*, Ser. II, **IV-6**, pp. 341-354, (1955)
55. Properties of Single Crystals of Ice, Revealed by Internal Melting. SIPRE Research Papers No. 13, pp. 1-80, (1956)
56. Report of the Mauna Loa Expedition in the Winter of 1956-57. (with J. Sugaya and M. Shoda) *Jour. Fac. Sci., Hokkaido Univ.*, Ser. II, **V-1**, pp. 1-36, (1957)
57. Electron-microscope Study of Center Nuclei of Snow Crystals. (with M. Kumai) 75th Anniversary Volume of the Journal of the Meteorological Society of Japan, pp. 49-55, (1957)
58. Physical Investigation on the Growth of Snow Crystals. (with

- M. Hanazima and J. Muguruma) Jour. Fac. Sci., Hokkaido Univ., Ser. II, V-3, pp. 87-118, (1958)
59. Mechanical Properties of Single Crystals of Ice. Part 1, Geometry of Deformation, SIPRE Research Papers No. 28, p. 46, (1958)
 60. The Deformation of Single Crystals of Ice. Symposium of Chamonix, Physics of the Movement of the Ice. International Association of Scientific Hydrology Publication No. 47, pp. 229-240, (1958).
 61. Visco-elastic Properties of Snow and Ice in Greenland Ice Cap. Jour. Fac. Sci., Hokkaido Univ., Ser. II, V-3, pp. 119-163, (1958)
 62. Visco-elastic Properties of Snow and Ice in Greenland Ice Cap. SIPRE Report No. 46, p. 29, with appendix, (1959)
 63. Visco-elastic Properties of Processed Snow. SIPRE Research Report No. 58, pp. 1-22, (1959)
 64. Horizontal Distribution of Snow Crystals during the Snowfall. (with K. Higuchi) Physics of Precipitation, Monograph No. 5, American Geophysical Union, (1960)
 65. Elastic Properties of Processed Snow with Reference to Its Internal Structure. U.S. Army Cold Regions Research and Engineering Laboratory (CRREL), Research Report No. 82, pp. 1-25, (1961)
 66. Physical Properties of the Ice of Fletcher's Ice Island (T-3). (with J. Muguruma) Research Paper No. 20, Arctic Institute of North America, (1962)
 67. Glaciological Studies on Fletcher's Ice Island T-3. (with J. Muguruma and K. Higuchi) Research Paper No. 21, Arctic Institute of North America, (1962)

Book

Snow Crystals, natural and artificial, Harvard Univ. Press, (1954)