

OVERVIEW

Title: C. L. STONG PAPERS, 1952-1976

Collection Dates: 1952-1976

Extent and Forms of Material: 15 cubic feet: 38 boxes

C. L. Stong (1902-1975), an electrical engineer with the Western Electric Company from 1926 to 1962, became editor of “The Amateur Scientist” feature of the *Scientific American* in 1957 and held that position until his death.

These papers are the files of the editor of “The Amateur Scientist” section of the *Scientific American* from 1952 to 1976. They are arranged chronologically by date of article. The feature was started in 1952 as an expansion of “The Amateur Astronomer” section of the periodical. The papers include files of Stong’s predecessor and files for articles prepared but not published before his death. The files contain correspondence with authors and readers, original illustrations, and reprints of articles.

By: Robert S. Harding, April 1984; Revised D. Haberstich, 5/16/05; Revised Joe Hursey, May 2014.

CONTAINER LIST:

Box	Folder	Title	Date
1		Seismology	April 1952
		Bird Banding	May 1952
		Mountain Geology	June 1952
		Archeology	July 1952
		May Flies	August 1952
		Could Chambers	September 1952
		Hydroponics	October 1952
		Mineralogy	November 1952
		Mouse Genetics	December 1952
2		Microscopy	January 1953
		Chromatography	February 1953
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		Wind Tunnel	April 1953
		Mathematical	May 1953
		Seismology	June 1953
		Archeology	July 1953
		Skin Diving	August 1953

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		Cyclotron	September 1953
		Meteorology	October 1953
		Color Theory	November 1953
		Microscopes	December 1953
3		Paleontology	January 1954
		Astro-Photometry	February 1954
		Herpetology	March 1954
		Bathtub Aerodynamics	April 1954
		Elec. Hygrometer	May 1954
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		Traveling Micro.	August 1954
		Circular Translation	September 1954
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4		Eye Movements	November 1954
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		Mineralogy	February 1955
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		VdeGraff Gen.	April 1955
		Smoke Tunnel	May 1955
		Liquid Prism	June 1955
		Microscopy	July 1955
		Electrophoresis	August 1955
5		Conograph	September 1955
		Heleshaw App	October 1955
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		Sound-Hi-Fi	January 1956
		Elec. Dischargers	February 1956
		Tropical Fish	March 1956
		Wilson Cloud Chamber	April 1956
		Fossil Seeds	May 1956
		Tel. Camera	June 1956
		X-Ray Tube	July 1956
		Dynamics Sail Craft	August 1956
6		Spectrograph	September 1956
		Fossil Crinoids	October 1956
		Interferometer	November 1956
		Gram. Word Computer	December 1956
		IGY-Aurora	January 1957

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		Carbon 14 – Dating	February 1957
7		Hummingbirds	March 1957
		Model Boat Experiments	April 1957
		Van De Graff Generator	May 1957
		Rockets	June 1957
		Seismograph	July 1957
		Mice Metabolism	August 1957
		Crystal Clock	September 1957
		Solar Photography	October 1957
		Underwater Spark	November 1957
		Robert Stroud	December 1957
8		Satellite tracking	January 1958
		Gas-Discharge Tube	February 1958
		Bacteriostasis	March 1958
		Spectroheliograph	April 1958
		Schupman Refractor	May 1958
		Foucault Pendulum	June 1958
		Meteor Counter	July 1958
		Measuring Areas	August 1958
		Spectrometer	September 1958
		Observing Satellites	October 1958
9		Hilsch Tube	November 1958
		Gibberellic Acid	December 1958
		Particle Accelerator	January 1959
		Dinosaur Collecting	February 1959
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		Mag. Res. Spectrometer	April 1959
		Oil Drop Experiment	May 1959
		Cloud Chamber	June 1959
		Care of Reptiles	July 1959
		Global Sundial	August 1959
		Tranquilizers - Rats	September 1959
10		Transistor Telescope Drive	October 1959
		6" Reflect. Telescope	November 1959
		Thyroid Gland Experiments	December 1959
		Wapanucket No. 6	January 1960
		Hummingbirds	February 1960
		Vacuum Pumps	March 1960
		Coriolis Force	April 1960
11		Radioactive Isotopes	May 1960
		Technology of Rubber	June 1960

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		Pendulum Clock I	July 1960
		Pendulum Clock II	August 1960
		Solar Detection	September 1960
		Hydrophone	October 1960
		Electret	November 1960
12		Lunar Photography	December 1960
		Auroral Spectrograph	January 1961
		Underwater Periscope	February 1961
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		Various Experiments	April 1961
		Fossilides	May 1961
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13		Monolayers	September 1961
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		Growing Crystals	March 1962
14		Grass Inhibitor	April 1962
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		Zone Electrophoresis	June 1962
		Pockels Effect	July 1962
		Electronic Analogies	August 1962
		Polarograph	September 1962
15		Ripple Tank	October 1962
		Sea Water Aquaria	November 1962
		Crystallization of Ice	December 1962
		Enzymology	January 1963
		Spider Webs	February 1963
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16		Stream Table	April 1963
		Thunderstorm Azimuth Det.	May 1963
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		Electrodes Disc. Tube	July 1963
		Reflecting Telescope	August 1963
		Cavendish Experiment	September 1963
17		Flame & Water Vortexes	October 1963
		Metal Tel. Mirrors	November 1963

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		Seed Radiation	December 1963
		Golf Club Dynamics	January 1964
		Schliernen Effects	February 1964
		Two New Hydrophones	March 1964
18		Tuning Fork Clock	April 1964
		Amateur Glass Blowing	May 1964
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		High Speed Photography	July 1964
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19		Phototaxis	October 1964
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20		Marine Specimens	March 1965
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		Drosophila Chromatograms	June 1965
		Hall Effect Device	July 1965
		Raindrops & Snowflakes	August 1965
21		High Alt. Simulator	September 1965
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		Deep-Sky Photography	December 1965
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		Preserving Snowflakes	March 1966
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22		Rain Gauge	May 1966
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		Acoustic Plant Growth	August 1966
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23		Electric Welding	November 1966
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		Electrostatics	January 1967
		Holograms	February 1967
		Indoor Greenhouse	March 1967
		Small Pendulums	April 1967

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		Learning Behavior – Sow Bug	May 1967
		Electric Thermometer	June 1967
24		Fluid Mapper	July 1967
		Micromanometer	August 1967
		Gas Chromatograph	September 1967
		Sputtering	October 1967
		Electrochemical Cells	November 1967
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25		Strain Gauges	January 1968
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		Short-Range Telemetry	March 1968
		Color Microscopy	April 1968
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26		Ultraviolet Spectrograph	October 1968
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		Argon Gas Laser	February 1969
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		Making & Flying Kites	April 1969
27		Blowing Soap Bubbles	May 1969
		Liesegang Phenomena	June 1969
		Metabolism Measurements	July 1969
		Celestial Photography	August 1969
		Immunoelectrophoresis	September 1969
		Observing Blood Flow	October 1969
28		Portable Cooling Device	November 1969
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		Microspherules	January 1970
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		Pond Management	March 1970
		Astronomical Observation	April 1970
		Servo-Pen Recorder	May 1970
		Geotropism	June 1970
		Molecular Beam Generator	July 1970
		Hydrophone	August 1970
		Salt-Water Oscillator	September 1970

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29		Visual Perception – Pigeons	October 1970
		Laser-Light Modulator	November 1970
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30		Millipore Filters	February 1971
		Visual Illusions	March 1971
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		Salt Fountains	June 1971
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		Proton Accelerator	August 1971
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		Grazing Occultations	January 1972
		Holographic Interferometry	February 1972
32		Pen Motor	March 1972
		Zero Gravity Simulator	April 1972
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		Anemometer & Wind vane	June 1972
		Von Karman Vortex	July 1972
		Short-Focus Telescope	August 1972
33		Mead	September 1972
		Benthobservatory	October 1972
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		Spider Web Building	December 1972
		Transistor radio Experiments	January 1973
		Molecular Models	February 1973
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		Collagen Engine	April 1973
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34		Electron Microscope	September 1973
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		Recording Birdsongs	February 1974

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		Spectroheliometer	March 1974
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		Satellite path Predictor	May 1974
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		Operant Conditioning	November 1975
		Antitwister Mechanism	December 1975
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		Enzyme model Building	February 1975

Subject Index to Stong Papers--Division of Electricity & Nuclear Energy

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2. Analogue

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3. <u>Antibubbles</u>	
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Measuring Speed of Light	October 1975

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| 7. | <u>Birds</u> | |
| | Bird banding | May 1952 |
| | Hummingbirds | March 1957 |
| | Stroud, Birdman of Alcatraz | December 1957 |
| | Hummingbirds | February 1960 |
| | Recording Birdsongs | February 1974 |
| 8. | <u>Cavendish</u> | |
| | Cavendish Experiment | September 1963 |
| 9. | <u>Clocks</u> | |
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| | Pendulum Clock I | July 1960 |
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| | Tuning Fork Clock | April 1964 |
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| 10. | <u>Collagen</u> | |
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| | Color Discrimination | December 1966 |
| 12. | <u>Cooling</u> | |
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| 13. | <u>Coriolis</u> | |
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| | Growing Crystals | March 1962 |

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| | Crystallization of Ice | December 1962 |
| | Controlled Crystal Growing | January 1968 |
| 15. | <u>Differentials</u> | |
| | Differential Thermal Analysis | December 1961 |
| | Differential Oper. Amplifier | January 1971 |
| 16. | <u>Electrical Discharge</u> | |
| | Electrical Discharge | February 1956 |
| | Underwater Spark | November 1957 |
| | Gas-discharge Tube | February 1958 |
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| | Electric Welding | November 1966 |
| 17. | <u>Electrochemistry</u> | |
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| | pH Meter | September 1968 |
| 18. | <u>Electronics</u> | |
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| | Tunnel Diode | March 1963 |
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| | Transistor Radio Experiments | January 1973 |
| 19. | <u>Electrostatics</u> | |
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| 20. | <u>Experiments</u> | |
| | Experiments for a Rainy Weekend | April 1961 |
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22. <u>Gibberellins</u>	
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24. <u>Gravitation</u>	
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28. <u>Holograms</u>	
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29. <u>Hydrophone</u>	
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30. Interferometer
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| Series Interferometer | June 1964 |
| Holographic Interferometer | February 1972 |
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| Wave Machine | December 1968 |
| Salt Fountains | June 1971 |
| Floating Water Globules | August 1973 |
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36. Mathematical Machines

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Thin-layer Chromatography	February 1976
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Operant Conditioning

November 1975

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Van de Graaff Generator	May 1956
Particle Accelerator	January 1959
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Radioactive Isotopes	May 1960
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Atomic Tracks	April 1965
Molecular Beam Generator	July 1970
Proton Accelerator	August 1971

49. Pendula

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	Grass Inhibitor	April 1962

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Slime Molds	January 1966
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56. <u>Pockels</u>	
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57. <u>Polarograph</u>	
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61. <u>Saltwater Oscillator</u>	

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	Saltwater Oscillator	September 1960
62.	<u>Schlieren Effect</u>	February 1964
	Schlieren Effect	February 1964
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63.	<u>Seismology</u>	
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	Seismology	June 1953
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65.	<u>Soap</u>	
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66.	<u>Sports</u>	
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