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## **The Journal of Adhesion**

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## **Editor's Biography**

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# *Dr. Louis H. Sharpe*

*Editor-in-Chief*



## THE JOURNAL OF ADHESION

*In this inaugural and forthcoming issues of The Journal of Adhesion, we will be acquainting our subscribers with the editorial staff who will be guiding this Journal. This issue we are highlighting Dr. Sharpe, Editor-in-Chief. His background, education, experience, and personal credentials are presented below:*

### **Place of Birth:**

Jamaica, West Indies

### **Education:**

Virginia Polytechnic Institute, 1950, B.S. Chemistry (Honors Curriculum)  
—Member of following honorary societies: Phi Lambda Upsilon-Chemistry; Alpha Psi Omega-Dramatics; Pi Delta Epsilon-Journalism.  
Michigan State University, 1957, Ph.D. Physical Chemistry (Photochemistry), Minor subjects—Physics and Mathematics. Parke, Davis and Co. Fellow 1950-1954. Member of following societies: Honorary, Sigma Pi Sigma-Physics; Sigma Xi-Research; Professional, Alpha Chi Sigma-Chemistry.

### **Experience:**

Engineer, Michigan State Highway Dept., 1954-1955; Bell Telephone Laboratories, Incorporated, 1955-present.  
Member of Technical Staff and Supervisor, Surface Chemistry Applied Research. Organic Materials Research and Development Department.  
Bell Telephone Laboratories, Incorporated, Murray Hill, New Jersey 07974

### **Major Professional Activity:**

Since 1965, have been developing an interdisciplinary group doing scientific research on the phenomenon of adhesion. The activities of this group now include: fundamental surface chemistry and physics of polymers; mechanical properties—structure relationships of polymers; polymer-filler interaction and mechanical properties of filled systems; fracture and environment-assisted fracture of polymeric systems; reinforcement mechanisms of coupling agents. All of this work is aimed at understanding how materials interact with each other.

Prior to 1965, was engaged in some of the above on a smaller scale and also supervised a group concerned with engineering uses of adhesives. Was one of the early workers on the technique of attenuated total reflectance infrared spectroscopy and was the first to apply it to the study of monomolecular layers and interfaces.

Prior to 1960, was involved in a study of etchants for copper for printed wiring and a study of the contamination of printed wiring base laminates

by etchants and methods for its removal. Was also involved in a feasibility study of photosensitive resists for semiconductor etching and the use of new resins as bases for carbon composition resistors.

### Papers and Articles:

Approximately 20 papers covering adhesion, adhesives, surface chemistry of polymers, IR and UV spectrophotometry, printed circuits and etchants for copper.

### Membership:

Vice-chairman, ASTM Committee D-14, 1962-64; Chairman, Research Subcommittee, 1964-present; Chairman, 1967 Gordon Research Conference on the Science of Adhesion; Member, American Chemical Society, 1954-present; Chairman, ACS Symposium, "Chemical Aspects of Printed Wiring," San Francisco, April, 1958; Chairman, ACS Symposium, "Surface and Bulk Properties of Polymers," Chicago, September, 1964; Member, New York Academy of Sciences, 1965-present; Member, Sigma Xi, 1953-present.

### Patents:

U.S. 2,964,453. "Etching Bath for Copper and Regeneration Thereof."  
U.S. 3,380,879. "Method of Forming a Seal Directly Between an Unmodified Fluorocarbon Polymer Surface and an Epoxy Adhesive, and Article Made Thereby."

### Other:

Major professional interests include: Surface Chemistry and Mechanical Properties of Polymers; Adhesion, Adhesives, Structure and Chemistry in Monolayers.

Lecture extensively on the subject of adhesion.

ASTM Adhesives Award, 1968.

1. "Determination of Vitamin A in the Presence of Tocopherols," D. T. Ewing, L. H. Sharpe and O. D. Bird, *Analytical Chemistry*, Vol. 25, page 599, April, 1953.
2. "Insert for Reducing Volumes of Beckman Spectrophotometer Cells," Louis H. Sharpe, *Analytical Chemistry*, Vol. 26, page 1528, September, 1954.
3. "Ultraviolet Conversion of Ergosterol to Vitamin D<sub>2</sub>: Effects of Solvent, Cell Thickness and Wavelength on the Reaction," L. H. Sharpe, Ph.D. Thesis, Michigan State University, 1957.
4. "Regenerable Etchant for Copper," L. H. Sharpe and P. D. Garn, *Industrial and Engineering Chemistry*, Vol. 51, pp. 293-298, March, 1959.
5. "Printed and Integrated Circuitry," T. D. Schlabach and D. K. Rider, McGraw-Hill Book Co., Inc., New York, 1963. Substantial part of Chapter 4.
6. "Observation of Molecular Interactions in Oriented Monolayers by Infrared Spectroscopy Involving Total Internal Reflection," Louis H. Sharpe, *Proceedings of the Chemical Society*, December, 1961, page 461.
7. "Surface Energetics, Adhesion, and Adhesive Joints," Louis H. Sharpe and Harold Schonhorn, *Advances in Chemistry Series, Number 43*, page 189, 1964.
8. "Adhesives," Louis H. Sharpe and Harold Schonhorn, *International Science and Technology*, April, 1964.
9. "Surface Tension of Molten Polypropylene," H. Schonhorn and L. H. Sharpe, *Polymer Letters*, Vol. 3, pp. 235-237, 1965.

10. "Surface Energetics, Adhesion and Adhesive Joints. II. Joints Between Epoxy Adhesives and Chlorotrifluoroethylene Homopolymer and Copolymer," Harold Schonhorn and Louis H. Sharpe, *Polymer Letters*, Vol. 2., pp. 719-722, 1964.
11. "Surface Energetics, Adhesion, and Adhesive Joints. III. Surface Tension of Molten Polyethylene," Harold Schonhorn and Louis H. Sharpe, *Journal of Polymer Science: Part A*, Vol. 3, pp. 569-573, 1965.
12. "Surface Energetics, Adhesion, and Adhesive Joints. IV. Joints Between Epoxy Adhesives and Chlorotrifluoroethylene Copolymer and Terpolymer (Aclar)," H. Schonhorn and L. H. Sharpe, *Journal of Polymer Sciences Part A*, Vol. 3, pp. 3087-3097, 1965.
13. "Some Aspects of the Permanence of Adhesive Joints," Louis H. Sharpe, *Applied Polymer Symposia*, No. 3, 353-359, 1966.
14. "The Study of Very Thin Films by Frustrated Total Reflection," Louis H. Sharpe, *Instrument News*, Volume 15, No. 4, Winter, 1965.
15. "Fluorinated Diepoxides," F. R. Dammont, L. H. Sharpe, H. Schonhorn, *Polymer Letters*, Vol. 3, pp. 1021-1023, 1965.
16. "Surface Tension of a Molten Poly(chlorotrifluoroethylene)," H. Schonhorn, L. H. Sharpe, F. W. Ryan, *J. Poly. Sci., Part A-2*, Vol. 4, 538-542, 1966.
17. "On the Wettability of Tooth Surfaces (Preliminary Investigation)," G. V. Newman and L. H. Sharpe, *J. of the N. J. State Dental Socy.*, Vol. 37, 289, 1966.
18. "Assembling with Adhesives," Louis H. Sharpe, *Machine Design* 38, 177-200 (Aug. 18, 1966).
19. "Adhesives," Louis H. Sharpe, *Machine Design, Reference Issue on Fastening and Joining*, 4th Edition, 120-129, June 15, 1967.
20. "Some Comments on a Paper by Voyutskii and Deryagin Concerning Adhesion," Louis H. Sharpe and Harold Schonhorn, *Kolloidnyi Zhurnal* 28 (No. 5), 766-7 (1966).