

## **CIRRICULUM VITAE**

**Vo Thanh Liem**

### **EDUCATION**

B.S. Saigon University, 1968  
Ph.D. University of Utah, 1975  
Advisor Professor: T.B. Rushing

### **PROFESSIONAL POSTIONS**

Research Associate, University of Georgia, 1975-1976  
Instructor, Louisiana State University, 1976-1979  
Visiting Instructor, University of Kentucky, Fall 1978  
Assistant Professor, University of Alabama 1979-1981  
Associate Professor, University of Alabama, 1981-1986  
Professor, University of Alabama, 1986-present  
Visiting Institute Advanced Studies, Spring 1989  
Visiting scholar, Princeton University, 1990-1991

### **RESEARCH INTERESTS**

Geometric Topology and embedding theory: Infinite Topology, embeddings and shape theory, four-dimensional manifold topology.

### **PUBLICATIONS IN REFEREED JOURNALS**

1. Certain continua in  $S^n$  of the same shape have homeomorphic complements, Trans. Amer. Math Soc., Vol. 218, (1976), 207-217.
2. Certain continua in  $S^n$  with homeomorphic complements have the same shape, Fund. Math, (1977), 221-228.
3. Some cellular subsets of the spheres, Pac. J. Math, Vol. 2 (1977), 115-125.
4. Homotopy characterization of weakly flat knots, Fund. Math, CII.1, (1979), 61-72.

5. Factorizations of free actions of finite groups on compact Q-manifolds, Proc. Amer. Math Soc., Vol. 75, 2 (1979), 334-338.
6. Infinite products which are homeomorphic to Hilbert space, with D.W. Curtis, Gen. Top. and Its Appl., 10 (1980), 19-25.
7. A counter example in  $1^2$  - manifold theory, Proc. Amer. Math Soc., Vol. 73, 1 (1979), 119-120.
8. Concordance classes of free actions of compact Lie groups on infinite-dimensional manifolds, Proc. of Georgia Topology Conference, Academic Press, 1979, 621-629.
9. Homotopy dimension of some orbit spaces, Pac. J. of Math, 92 (1981), 357-363.
10. An  $\alpha$ -approximation theorem for  $Q^\infty$  - manifolds, Topology and Its Appl., 12 (1981), 289-304.
11. Some results on semi-free actions of finite groups on Hilbert cube manifolds, Top. and Its Applications, 12 (1981), 147-159.
12. An unknotting theorem in  $Q^\infty$  - manifolds, Proc. of A.M.S., 82 (1981), 125-132.
13. Triviality of simple fiber - preserving actions of tori on Hilbert-cube-fiber bundles, Proc. of A.M.S., 87 (1983) 549-554.
14. On infinite deficiency in  $R^\infty$ -manifolds, Transactions of A.M.S., Vol. 228 (1985), 295-226.
15. Manifolds accepting co-dimension-one-sphere-shape decompositions, Topology and Its Applications, 21 (1985) 77-86.
16. Polyhedral shape concordance implying homeomorphic complements, Fund. Math, Vo. 125, #3 (1985), 217-230.
17. An  $\alpha$ -approximation theorem for  $R^\infty$ -manifolds, Rocky Mountain Journal of Math., 17 (1987), 393-419.
18. Stable shape concordance implies homeomorphic complements, with G.A. Venema Fund. Math, Vol. 125, (1986) (2), 123-131.

19. A local strong UV-property of the homeomorphism groups of  $R^\infty(Q^\infty)$ -manifolds, Proc. of AMS, Vol. 98.1 (1986), 145-149.
20. On  $R^\infty(Q^\infty)$ -manifold bundles over CW-complexes, Trans. of AMS, Vol. 297, 2 (1986), 563-585.
21. Some homotopy properties of the homeomorphism groups of  $R^\infty(Q^\infty)$ -manifolds, Proc. A.M.S., Vol. 100, 2 (1987), 169-174.
22. Concordance of compacta, (with G.A. Venema), Compositio Mathematica, Vol. 75 (1990), 193-201.
23. Characterization of the complements of knots in the 4-sphere, (with G.A. Venema), Topology and Its Applications, Vol. 42 (1991), 231-245.
24. Complements of 2-spheres in 4-manifolds, (with G.A. Venema), Topology Hawaii, World Scientific Publishing Co., Singapore (1992), 157-164.
25. Characterization of knot complements in the 4-sphere: a special case, (with G.A. Venema), Proc. of Sixth Annual Western Geometric Workshop, 65-68.
26. Neighborhoods of  $S^1$ -like continua in 4-manifolds, (with G.A. Venema), Mich. J. of Mathematics, Vol. 40 (1993), 3-25.
27. On the asphericity of knot complements, (with G. A. Venema), Canadian J. of Mathematics, Vol. 45 (2), 1993, 340-356.
28. On the characterization of knot complements in the n-sphere, (with G.A. Venema), Fund. Math. 147 (1995), 189-196.
29. A homotopy equivalence which is not homotopic to a topological embedding, (with Y. Matsumoto and G.A. Venema), Topology and Its Applications 90 (1998) 221-222.
30. Representing homology classes of 4-manifolds, (with G.A. Venema), Topology and Its Applications, 120(2002), 57-65.

## LIST OF INVITED TALKS

1. Half-hour talk: Spring Topology Conference, Baton Rouge, 1977.  
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2. 20-minute talk: AMS Meeting, Oklahoma City, April 1981.
3. One-hour talk: Banach International Mathematical Center, Warsaw, Poland, May 1984.
4. Half-hour talk: Dedicated to C.E. Burgess' Birthday, Provo, Utah, 1985.
5. 20-minute talk: AMS Meeting in Logan, Utah, October 1986.
6. Half-hour talk: Spring Topology Conference, Birmingham, March 1987.
7. 20-minute talk: Spring Topology Conference, Knoxville, TN, March 1989.
8. Colloquium talk: Cornell University, Ithaca, NY, Spring 1991.
9. Colloquium talk: Princeton University, Princeton, NJ, Spring 1991

## **ATTENDED MEETINGS**

- 1. 2012 Georgia Topology Conference, May 09 – May 13, 2012**
- 2. 2012 Stanford work shop on Holomorphic Curves and Low Dimensional Topology, July 20 – August 13, 2012**
- 3. 2013 AMS Joint Mathematics Meetings in San Diego, CA, January 9 – January 12, 2013**
- 4. 2017 Texas Geometry and Topology Conference, Austin TX, November 17 – November 19, 2017**
- 5. 2018 Work Shop in Geometric Topology, Grand Rapids, MI, June 14 – June 16, 2018**

## **REFEREE WORK**

Referee for Proceedings of AMS  
Topology and Its Applications  
Transaction of AMS

## **GRANT**

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