CURRICULUM VITAE

Name:	KARL HEINRICH HOFMANN
Rank:	Professor
Department:	Mathematics
Appointment:	September 1963
Date of Birth:	October 3, 1932
	Heilbronn, Germany

EDUCATION:

1952-57	Universität Tübingen und Universität Hamburg
1957	Prüfung für das Lehramt an höheren Schulen, Universität Tübingen
1958	Dr. rer. nat., Universität Tübingen
1962	Habilitation für das Fach Mathematik, Universität Tübingen

PROFESSIONAL BACKGROUND:

1958-59	Universität Tübingen, Assistant Professor (teaching, research)
1959-60	Universität Tübingen, Member of the Research Group for Mathematical Statistics
1961-65	Universität Tübingen, Dozent (teaching, research)
1963-65	Tulane University, Associate Professor (teaching, research)
1965-	Tulane University, Professor (teaching, research)
1977-78	Tulane-Newcomb Junior Year Abroad Program, Professor-in-Charge, Paris, France (teaching, administration)
1980	Tulane University, W. R. Irby Professor of Mathematics (teaching, research)
1982	Technische Hochschule Darmstadt, Germany, Professor C4 für Mathematik, Arbeitsgruppe 5 (Funktionalanalysis)
1982	Tulane University, Adjunct Professor of Mathematics
1998	Technische Universität Darmstadt, Emeritus Professor of Mathematics

Visiting Positions:

1960-61	Tulane University, New Orleans, Visiting Research Associate
1966	Universität Tübingen, Germany, Gastprofessor, summer 1966
1967-68	Institute for Advanced Study, Princeton, N.J.: Visiting Member, (also summer, 1965)
1973-74	Université de Paris VI, Paris, France; professeur associé
1974	Technische Hochschule, Darmstadt, Germany, Gastprofessor (summer)
1977	La Trobe University, Melbourne, Australia, Visiting Professor (May 1 - June 4)
1980-81	Technische Hochschule, Darmstadt, Germany, Gastprofessor
1986	Université Catholique de Louvain-la-Neuve, Belgium, professor invité (January 20- 25)
1987	Université Catholique de Louvain-la-Neuve, Belgium, professor invité (April 13-18)
1988	Université Catholique de Louvain-la-Neuve, Belgium, professor invité (March 7-April 1)
2000	University of South Australia, Mawson Lakes Campus, Adelaide, Visiting Scholar (October 15- January 30, 2001)
2002	University of Ballarat, Victoria, Australia Visiting Scholar (October 14- January 31, 2003)
2004	University of Ballarat, Victoria, Australia Visiting Research Professor (October-January, 2005)

SELECTED PUBLICATIONS:

A.   Papers in Journals(since 2000):

177. G-spaces and fixed point sets, Geometriae Dedicata **83** (2000), 39–61 (with J. Martin).

180. A structure theorem on compact groups, Math. Proc. Camb. Phil. Soc. **130** (2001), 409–426 (with S. A. Morris).

181. Transitive actions of compact groups and topological dimension, Journal of Algebra **234** (2000), 454–479 (with S. A. Morris).

182. Arc components of locally compact groups are Borel sets, Preprint Nr. **2095**, FB Math. TU Darmstadt, Mai 2000, submitted.

184. Angewandte Mathematik in der Renaissance, Mitteilungen der Deutschen Mathematiker Vereinigung, Heft 4/2000, 26-33.

187. Counting the topological dimension of large homogeneous spaces of compact groups, in: Ignacio Bajo Palacio and Esperanza Sanmartín, Eds., Recent Advances in Lie Theory, Research and Exposition in Mathematics **25** (2002), Heldermann Verlag, Lemgo, 261–269.

188. The low separation axioms T_0 and T_1, in: K. P. Hart, J.-I. Nagata, and J. E. Vaughan, Eds., Encyclopedia of General Topology, Elsevier Science B.V., Amsterdam etc., 2004, 155–157.

189. Die Ästhetik von Formeln— Bernar Venets Wandbilder, Mitteilungen der Deutschen Mathematiker-Vereinigung 3–2001 (2001), 27–32.

192. The exponential function of locally connected compact abelian groups, Forum Mathematicum (2003), (with S. A. Morris and D. Poguntke).

193. Projective limits of finite dimensional Lie groups, Proceedings of the London Math. Soc. (3) **87** (2003), 647–676 (with S. A. Morris).

194. Commutative diagrams in the fine arts, Notices Amer. Math. Soc. **49**-6 (June/July) (2002), 663–668.

196. 10 Jahre neue Mitteilungen der Deutschen Mathematiker Vereinigung, Mitteilungen der Deutschen Mathematiker Vereinigung 1-2003, 34–38.

197. The structure of abelian pro-Lie groups, Mathematische Zeitschrift **248** (2004), 867–891 (with S. A. Morris).

200. Sophus Lie's Third Fundamental Theorem and the Adjoint Functor Theorem, Journal of Group Theory **8** (2005), 115–133 (with S. A. Morris).

201. Commuting exponentials in a real Lie group, Math.Proc. Cambr.Phil.Soc. **141** (2006),to appear (with Walter J. Michaelis)

202. Zeitschriftenherausgeber in Mathematik und IT und ihre Szene, Mitteilungen der Deutschen Mathematiker Vereinigung bf13 (2005), 36–45 (with Sidney A. Morris)

203. An Open Mapping Theorem for pro-Lie Groups, J. Austral. Math. Soc. to appear, 22 pp. (with Sidney A. Morris)

204. Kann man die von Kochsche Kurve hören? Chronik einer Romreise. DMV Mitteilungen **13** (2005), 138–143

206. Iwasaswa's local splitting theorem for Pro-Lie Groups TeXscript, 22pp., submitted (with Sidney A. Morris)

207. Hurrikan Katrina und die Lage der Mathematik in New Orleans, Brief an den Herausgeber, Mitteilungen der Deutschen Mathematiker Vereinigung **13** (2005), 208–209

208. Pro-Lie groups as infinite dimensional Lie groups, in preparation (with K.-H.Neeb)

209. Open Mapping Theorems for Topological Groups, in preparation, to be submitted to Topology Proceedings, 15 pp. (with Sidney A. Morris)

B.   Selected Books or Monographs:

2. Splitting in Topological Groups, Memoirs of the Amer. Math. Soc. **43** (1963), 75 pp. (with P. S. Mostert). Third Printing 1993.

3. Elements of Compact Semigroups, Charles E. Merrill, Columbus, Ohio, 1966, xiii + 384 pp. (with P. S. Mostert).

4. Compact Semitopological Semigroups and Weakly Almost Periodic Functions, Lecture Notes in Mathematics **42**, Springer-Verlag, 1967, 160 pp. (with J. Berglund).

5. Representation of Rings by Sections, Memoirs of the Amer. Math. Soc. **83**, 1968, 180 pp. (with J. Dauns).

8. Cohomology Theories of Compact Abelian Groups, Deutscher Verlag der Wissenschaften, Berlin, 1973 (and Springer-Verlag Berlin-Heidelberg-New York 1974), 236 pp. (with P. S. Mostert).

12. A Compendium of Continuous Lattices, Springer-Verlag Berlin, Heidelberg, New York, 1980, xx + 371 pp. (with G. Gierz, K. Keimel, J. D. Lawson, M. Mislove, D. Scott). Second Edition in Preparation.

14. Lie Groups, Convex Cones, and Semigroups, Oxford University Press (1989), xxxiii + 645 (with J. Hilgert and J. D. Lawson).

15. Lie Groups and Subsemigroups with Surjective Exponential Function, Memoirs of the American Mathematical Society, **130**, 1997, viii+174pp. (with W.A.F. Ruppert).

16. The Structure of Compact Groups, Verlag Walter De Gruyter Berlin, 1998, xvii+834pp. Second Revised and Augmented Edition 2006, xviii+858pp., (with Sidney A.Morris).

17. Poster Cartoons 1983–1998 / Plakate aus 15 Jahren *Poster Cartoons by Karl Heinrich Hofmann for the Mathematical Colloquium*, Technische Universität Darmstadt, 1998, xxi+132pp (Catalogue of an Exhibition at the International Congress of Mathematicians in Berlin, August 1998, ISBN 3-88607-119-7 See also DMV-Mitteilungen 3/ 1996, "Darmstädter Kolloquiumsbilder", pp.22–35

18. Analysis I–An Introduction to Mathematics via Analysis in English and German, Heldermann Verlag, Lemgo, 2000, xx+398pp.

19. The Lie Theory of Connected Pro-Lie Groups - A Structure Theory for Pro-Lie Algebras, Pro-Lie Groups and Connected Locally Compact Groups, EMS Publishing House, Zürich, 2006, xvii+681pp., with Sidney A. Morris, to appear.

20. Continuous Lattices and Domains, Cambridge University Press (with G. Gierz, K. Keimel, J. D. Lawson, M. Mislove, D. Scott). Second and thoroughly revised edition of item [12.] above. Encyclopedia of Mathematics and its Applications **93**, Cambridge Univ. Press 2003, xxxvi + 591 pp.

C1.   Books and Articles illustrated:

Aigner, M.,, Zwischen Mythos und Banalität—Von der Schwierigkeit, Mathematik zu vermitteln, (5 Illustrationen) Mitteilungen der Deutschen Mathematiker Vereinigung 3-2003, 18–22.

Aigner, M. and G. M. Ziegler, Proofs from the Book, Springer-Verlag Berlin etc., 1998, viii+199pp.   Second Edition 2001, viii+215 pp. (three additional drawings for newly inserted text),   German Version 2002: Das BUCH der Beweise, 2002 viii+247 pp. (one replacement drawing p. 153), Second Edition 2003   Japanese Translation, 2002, xiii+314 pp.   Third Edition 2003.   Polish Translation 2002.

Bajo, I. and E. Sanmartín, Eds., Recent Advances in Lie Theory, R&E in Mathematics **25**, 2002, xiii+398 pp., Illustrationen: 1, 262, 263, 393.

Enzensberger, Hans Magnus, Zugbrücke außer Betrieb/Drawbridge up — Die Mathematik im Jenseits der Kultur/A Cultural Anathema, A. K. Peters, Natick, Massachusetts, USA, 1999, 48pp Hardcopy edition 2001, ISBN 1-56881-156-X; Japanese Edition 2003, ISBN 4-535-78351-9, 75pp

Gohberg, I., A. F. dos Santos, F.-O. Speck, F. S. Teixeira, and W.Wendland, Eds., in: Operator Theory–Advances and Applications 147 (2004), "Operator Theoretical Methods and Applications to Mathematical Physics–The Erhard Meister Memorial Volume, Birkhäuser Verlag, Basel etc., 2004. Illustration pp. 44 and 45. (Also published in Book no [17.] above, p. 43.

Hofmann, K. H., Analysis I, see "Books" [18] above.

Winterstein, S. und G. Sommer, Hrsg., Dokumentationsband Strudlhofstiege, Östereichische Verlagsgesellschaft, Wien, 2007, 128 S.

C.   Journal and Series Editing:

Managing Editor:	Seminar Sophus Lie 1, 2, 3 Heldermann Verlag Berlin, 1991-1993, continues as "Journal of Lie Theory" Vol. 4 (1994) through Vol 8 (1998), Deputy Managing Editor since Vol 8-2.
Editor:	Semigroup Forum, New York 1970-1998
Honorary Editor:	Semigroup Forum, New York 1998–
Editor:	Forum Mathematicum, Berlin 1989-1998
	Wissenschaftlicher Beirat: Mathematische Zeitschrift, Heidelberg 1972-1995
Editor:	R & E (Research and Exposition in Mathematics), Heldermann Verlag, Berlin, 1981-

C.   Editing of Collections :

Editor:	(with J. D. Lawson and J. Pym) The analytical and topological theory of semigroups: Trends and Directions, De Gruyter Verlag, Berlin, 1990.
Editor:	(with R. Wille) "Symmetry" – A collection of essays on the symmetries of discrete structures, Heldermann Verlag Berlin, 1990.

Editor: (with J. D. Lawson and E. B. Vinberg) Semigroups in Algebra, Geometry, and Analysis, de Gruyter Verlag, Berlin, 1995, viii + 368 pp.

Editor: (with Michael W. Mislove) Semigroup Theory and Applications, London Math. Soc. Lecture Notes Series **231**, Cambridge Univ. Press, 1996, ix+165pp.

Editor: (with Gerhard Betsch) Hellmuth Kneser: Gesammelte Abhandlungen/ Collected Papers, with contributions by Irvine Noel Baker†, David Gabai, Cameron Mc.A. Gordon, Alan Huckleberry, William H. Kazez, Jürgen Kindler, Günter Pickert, Michael Range, Reinhold Remmert, and Gudlaugur Thorbergsson; Verlag Walter De Gruyter, Berlin, 2005, xvi +923 pages.

DISSERTATIONS DIRECTED:

1)	1963	Sigmund Hudson (with Paul S. Mostert)
2)	1965	Klaus Keimel
3)	1966	Dong Hoon Lee
4)	1967	Frank Eckstein
5)	1968	John F. Berglund
6)	1969	David Kahn
7)	1970	Eric C. Nummela
8)	1971	Alonso Takahashi
9)	1972	Howard E. Evans
10)		Januario Varela (with John Dauns)
11)	1973	William A. Greene
12)		Dietrich Helmer
13)	1973	William F. LaMartin
14)		Fritz Krauss
15)	1974	John Yuan (with Michael Mislove)
16)	1975	David Wallace
17)	1980	Lester W. Jones
18)	1981	Jaime Niño
19)		Michael Castellano
20)	1982	Joachim Hilgert
21)	1984	Verena Keith
22)	1987	Stefan Ihringer
23)	1988	Karlheinz Spindler
24)	1990	Wolfgang Weiss
25)	1990	Karl Hermann Neeb
26)	1991	Christian Terp
27)	1991	Anselm Eggert
28)	1991	Norbert Dörr
29)	1992	Werner Schindler (with Jürgen Lehn)
30)	1993	Dirk Mittenhuber
31)	1995	Angelika May
32)	1995	Michael Wüstner
33)	1995	Martin Schwachhöfer
34)	1995	Christian Gross
35)	1998	Brigitte Breckner
36)	1999	Robert Graeff
37)	2001	Ulrike Klein