

## CURRICULUM VITAE

*Dana P. Williams*

### PROFESSIONAL PREPARATION

Cornell University	Mathematics	A.B.	1974
University of California at Berkeley	Mathematics	M.A.	1977
University of California at Berkeley	Mathematics	Ph.D.	1979

### APPOINTMENTS

1998–2004	Department Chair	—	Dartmouth College
1993–	Professor	—	Dartmouth College
1991–1998	Vice Chair	—	Dartmouth College
1988–1993	Associate Professor	—	Dartmouth College
1985–1988	Assistant Professor	—	Dartmouth College
1980–1985	Assistant Professor	—	Texas A&M University
1979–1980	Visiting Assistant Professor	—	Texas A&M University

### GRANT SUPPORT

NSF Grant MCS8101676	1981–1985
NSF Grant DMS8501737	1985–1987
NSF Grant DMS9301176	1993–1995
NSF Grant INT9314372	1994–1995
NIST SURF70NANB1H0035	2001
NSF Grant INT0124216	2002–2005

### PERSONAL INFORMATION

ADDRESS:	Department of Mathematics	BORN:	June 19, 1952
	6188 Kemeny Hall	MARITAL:	Married, one child
	Dartmouth College	PHONE:	(603)-646-2990 (office)
	Hanover, NH 03755-3551		603-643-9457 (home)

#### VISITING SCHOLAR POSITIONS

University of New South Wales, Australia	August	1982
	June – July	1986
	August – September	1988
	October – November	1989
University of Copenhagen, Denmark	December	1989
	March – May	1990
University of Newcastle, Australia	October – December	1991
	January – March	1993
	June – August	1994
	September – October	1995
	September – December	1996
	September – December	1997
	January – March	1998
	April – May	1999
	July	2000
August	2001	
University of Paderborn, Germany	May	1993
	November	1995

#### PH.D. STUDENTS

Steven Kaliszewski	1994	Now an Associate Professor at Arizona State University
Astrid an Huef	1999	Now a Senior Lecturer at the University of New South Wales in Australia
Mark Tomforde	2002	Now an Assistant Professor at the University of Houston
Lisa Orloff Clark	2004	Now an Assistant Professor at Susquehanna University

Current Students: Jon Brown and Geoff Goehle

PUBLICATIONS: see attached list.

PUBLICATIONS — DANA P. WILLIAMS

PAPERS PUBLISHED OR ACCEPTED FOR PUBLICATION

1. Dana P. Williams, *The topology on the primitive ideal space of transformation group  $C^*$ -algebras and C.C.R. transformation group  $C^*$ -algebras*, Trans. Amer. Math. Soc. **266** (1981), no. 2, 335–359.
2. Dana P. Williams, *Transformation group  $C^*$ -algebras with continuous trace*, J. Funct. Anal. **41** (1981), 40–76.
3. Dana P. Williams, *Transformation group  $C^*$ -algebras with Hausdorff spectrum*, Illinois J. Math. **26** (1982), no. 2, 317–321.
4. Paul S. Muhly and Dana P. Williams, *Transformation group  $C^*$ -algebras with continuous trace. II*, J. Operator Theory **11** (1984), 109–124.
5. Raúl E. Curto, Paul S. Muhly, and Dana P. Williams, *Cross products of strongly Morita equivalent  $C^*$ -algebras*, Proc. Amer. Math. Soc. **90** (1984), no. 4, 528–530.
6. Iain Raeburn and Dana P. Williams, *Pull-backs of  $C^*$ -algebras and crossed products by certain diagonal actions*, Trans. Amer. Math. Soc. **287** (1985), no. 2, 755–777.
7. Roger R. Smith and Dana P. Williams, *The decomposition property for  $C^*$ -algebras*, J. Operator Theory **16** (1986), 41–74.
8. Paul S. Muhly, Jean N. Renault, and Dana P. Williams, *Equivalence and isomorphism for groupoid  $C^*$ -algebras*, J. Operator Theory **17** (1987), no. 1, 3–22.
9. Roger R. Smith and Dana P. Williams, *Separable injectivity for  $C^*$ -algebras*, Indiana U. Math. J. **37** (1988), 111–133.
10. Iain Raeburn and Dana P. Williams, *Crossed products by actions which are locally unitary on the stabilisers*, J. Funct. Anal. **81** (1988), no. 2, 385–431.
11. Dana P. Williams, *The structure of crossed products by smooth actions*, J. Austral. Math. Soc. (Series A) **47** (1989), 226–235.

12. Dana P. Williams, Review of “*Representations of  $*$ -algebras, locally compact groups, and Banach  $*$ -algebraic bundles*” by J. M. G. Fell and R. G. Doran, Bull. Amer. Math. Soc., vol. 21, 1989, pp. 311–314.
13. Iain Raeburn, Allan M. Sinclair, and Dana P. Williams, *Equivariant completely bounded operators*, Pacific J. Math. **139** (1989), 155–194.
14. Paul S. Muhly and Dana P. Williams, *Continuous trace groupoid  $C^*$ -algebras*, Math. Scand. **66** (1990), 231–241.
15. Paul S. Muhly and Dana P. Williams, *Continuous trace groupoid  $C^*$ -algebras. II*, Math. Scand. **70** (1992), 127–145.
16. Iain Raeburn and Dana P. Williams, *Moore cohomology, principal bundles, and actions of groups on  $C^*$ -algebras*, Indiana Univ. Math. J. **40** (1991), no. 2, 707–740.
17. Iain Raeburn and Dana P. Williams, *Topological invariants associated to the spectrum of crossed product  $C^*$ -algebras*, J. Funct. Anal. **116** (1993), 245–276.
18. Iain Raeburn and Dana P. Williams, *Dixmier-Douady classes of dynamical systems and crossed products*, Canad. J. Math. **45** (1993), no. 5, 1032–1066.
19. Paul S. Muhly and Dana P. Williams, *Groupoid cohomology and the Dixmier-Douady class*, Proc. London Math. Soc. (3) (1995), 109–134.
20. Siegfried Echterhoff and Dana P. Williams, *Crossed products whose primitive ideal spaces are generalized trivial  $\hat{G}$ -bundles*, Math. Ann. **302** (1995), 269–294.
21. Alexander Kumjian, Iain Raeburn, and Dana P. Williams, *The equivariant Brauer groups of commuting free and proper actions are isomorphic*, Proc. Amer. Math. Soc. **124** (1996), no. 3, 809–817.
22. Paul S. Muhly, Jean N. Renault, and Dana P. Williams, *Continuous-trace groupoid  $C^*$ -algebras, III*, Trans. Amer. Math. Soc. (1996), 3621–3641.

23. David Crocker, Alexander Kumjian, Iain Raeburn, and Dana P. Williams, *An equivariant Brauer group and actions of groups on  $C^*$ -algebras*, J. Funct. Anal. **146** (1997), no. 1, 151–184.
24. Judith A. Packer, Iain Raeburn, and Dana P. Williams, *The equivariant Brauer group of principal bundles*, J. Operator Theory **36** (1996), no. 1, 73–105.
25. Alexander Kumjian, Paul S. Muhly, Jean N. Renault, and Dana P. Williams, *The Brauer group of a locally compact groupoid*, Amer. J. Math. **120** (1998), no. 5, 901–954.
26. Siegfried Echterhoff and Dana P. Williams, *Crossed products by  $C_0(X)$ -actions*, J. Funct. Anal. **158** (1998), no. 1, 113–151.
27. Astrid an Huef, Iain Raeburn, and Dana P. Williams, *An equivariant Brauer semigroup and the symmetric imprimitivity theorem*, Trans. Amer. Math. Soc. **352** (2000), no. 10, 4759–4787.
28. Siegfried Echterhoff and Dana P. Williams, *Locally inner actions on  $C_0(X)$ -algebras*, J. Operator Theory **45** (2001), no. 1, 131–160.
29. Iain Raeburn, Aidan Sims, and Dana P. Williams, *Twisted actions and obstructions in group cohomology*,  $C^*$ -algebras (Münster, 1999), Springer, Berlin, 2000, pp. 161–181.
30. Dana P. Williams, *A primer for the Brauer group of a groupoid*, Groupoids in analysis, geometry, and physics (Boulder, CO, 1999), Contemp. Math., vol. 282, Amer. Math. Soc., Providence, RI, 2001, pp. 21–34.
31. Astrid an Huef and Dana P. Williams, *Ideals in transformation-group  $C^*$ -algebras*, J. Operator Theory **48** (2002), no. 3, suppl., 535–548.
32. Astrid an Huef, Iain Raeburn, and Dana P. Williams, *Proper actions on imprimitivity bimodules and decompositions of Morita equivalences*, J. Funct. Anal. **200** (2003), no. 2, 401–428.
33. Siegfried Echterhoff and Dana P. Williams, *Central twisted transformation groups and group  $C^*$ -algebras of central group extensions*, Indiana Univ. Math. J. **51** (2002), no. 6, 1277–1304.

34. Igor Fulman, Paul S. Muhly, and Dana P. Williams, *Continuous-trace groupoid crossed products*, Proc. Amer. Math. Soc. **132** (2004), no. 3, 707–717 (electronic).
35. Paul S. Muhly and Dana P. Williams, *The Dixmier-Douady class of groupoid crossed products*, J. Aust. Math. Soc. **76** (2004), no. 2, 223–234.
36. Iain Raeburn, Mark Tomforde, and Dana P. Williams, *Classification theorems for the  $C^*$ -algebras of graphs with sinks*, Bull. Austral. Math. Soc. **70** (2004), no. 1, 143–161.
37. Dana P. Williams, *Tensor products with bounded continuous functions*, New York J. Math. **9** (2003), 69–77 (electronic).
38. Astrid an Huef, Iain Raeburn, and Dana P. Williams, *A symmetric imprimitivity theorem for commuting proper actions*, Canad. J. Math. **57** (2005), no. 5, 983–1011.
39. Dana P. Williams, *From the Stone-von Neumann theorem to the equivariant Brauer group and beyond*, Operator algebras, quantization, and noncommutative geometry, Contemp. Math., vol. 365, Amer. Math. Soc., Providence, RI, 2004, pp. 401–422.
40. Astrid an Huef, Iain Raeburn, and Dana P. Williams, *Properties preserved under Morita equivalence of  $C^*$ -algebras*, Proc. Amer. Math. Soc. (2006), (in press).
- 41.\* David Crocker, Iain Raeburn, and Dana P. Williams, *Equivariant Brauer and Picard groups and a Chase-Harrison-Rosenberg exact sequence*, J. Algebra **307** (2007), no. 1, 397–408.
- 42.\* Siegfried Echterhoff and Dana P. Williams, *Inducing primitive ideals*, Trans. Amer. Math. Soc. (2007), (in press).
- 43.\* Astrid an Huef, Steve Kaliszewski, Iain Raeburn, and Dana P. Williams, *Extension problems for representations of crossed product  $C^*$ -algebras*, J. Operator Theory (2007), in press.

#### PAPERS SUBMITTED

44. Astrid an Huef, Steve Kaliszewski, Iain Raeburn, and Dana P. Williams, *Induction in stages for  $C^*$ -crossed products by maximal coactions*, J. Funct. Anal., in press.
- 45.\* Siegfried Echterhoff and Dana P. Williams, *The Mackey machine for crossed products: Inducing primitive ideals*, submitted

#### BOOKS PUBLISHED

46. Iain Raeburn and Dana P. Williams, *Morita equivalence and continuous-trace  $C^*$ -algebras*, Mathematical Surveys and Monographs, vol. 60, American Mathematical Society, Providence, RI, 1998.
- 47.\* Dana P. Williams, *Crossed products of  $C^*$ -algebras*, Mathematical Surveys and Monographs, vol. 134, American Mathematical Society, Providence, RI, 2007.