

Clint N. Dawson

Vitae

Current Address: Department of Aerospace and Engineering Mechanics
Institute for Computational Engineering and Sciences
The University of Texas at Austin
1 University Station C0200
Austin, Texas 78712.
Phone: (512) 475-8627 FAX: (512) 471-8694
Electronic Mail: clint@ices.utexas.edu

Professional Preparation

Texas Tech University	Mathematics	B.A. (summa cum laude) 1982
Texas Tech University	Mathematics	M.S. 1984
Rice University	Mathematical Sciences	Ph.D. 1988
University of Chicago	Mathematics	NSF Postdoctoral Fellowship 1988-90

Appointments

Professor	The University of Texas at Austin	2000–
Associate Professor	The University of Texas at Austin	1995–2000
Associate Professor	Rice University	1994–95
Assistant Professor	Rice University	1990–94
Dickson Instructor	University of Chicago	1988–90

Selected Publications

1. V. Aizinger, C. Dawson, B. Cockburn and P. Castillo, *The local discontinuous Galerkin method for contaminant transport*, Advances in Water Resources, 24, pp. 73-87, 2000.
2. C.S. Woodward and C. Dawson, *Analysis of expanded mixed finite element methods for a nonlinear parabolic equation modeling flow into variably saturated porous media*, SIAM J. Numer. Anal., 23, pp. 517-530, 2000.
3. C. Dawson and R. Kirby, *High resolution schemes for conservation laws with locally varying time steps*, SIAM J. Sci. Comp., 22, pp. 2256-2284, 2001.
4. V. Aizinger and C. Dawson, *A discontinuous Galerkin method for two-dimensional flow and transport in shallow water*, Advances in Water Resources, 25, pp. 67-84, 2002.
5. B. Cockburn and C. Dawson, *Approximation of the velocity by coupling discontinuous Galerkin and mixed finite element methods for flow problems*, Computational Geosciences, 6, pp. 505-522, 2002.
6. C. Dawson and J. Proft, *Coupling of continuous and discontinuous Galerkin methods for transport problems*, Comp. Meth. Appl. Mech. Eng., 191, pp. 3213-3231, 2002.
7. C. Dawson and J. Proft, *Discontinuous and coupled continuous/discontinuous Galerkin methods for the shallow water equations*, Comp. Meth. Appl. Mech. Eng., 191, pp. 4721–4746, 2002.
8. C. Dawson, S. Sun and M.F. Wheeler, *Compatible algorithms for coupled flow and transport*, to appear in Comput. Meth. Appl. Mech. Eng.
9. C. Dawson *The $P^{k+1} - S^k$ local discontinuous Galerkin method for flow problems*, to appear in SIAM J. Numer. Anal.
10. C. Dawson and J. Proft, *Coupled discontinuous and continuous Galerkin finite element methods for the depth-integrated shallow water equations*, to appear on Comp. Meth. Appl. Mech. Eng.

Synergistic Activities Graduate Advisor, Computational and Applied Mathematics Program, The University of Texas at Austin, 1997-present; Chair, SIAM Activity Group on Geosciences, 2001-2004; Program Chair, 7th SIAM Conference on Geosciences, March, 2003; Organizing Committee, SIAM Annual Meeting, Portland, OR, 2004.

Graduate student and postdoctoral advisees

Ashok Chilikipati, Ph.D., 1992
Jesse Money, Professional Master's Degree, 1995
Victor Parr, Ph.D., 1995
Carol San Soucie Woodward, Ph.D., 1996
Hector Klie, Ph.D., 1996
Monica Martinez-Canales, Ph.D., 1998
Robert Kirby, Ph.D., 2000
Ruijie Liu, Ph.D. student
Jennifer Proft, Ph.D., 2002
Dharhas Pothina, M.S., 2002
Vadym Aizinger, Ph.D. student
Heriberto Gonzales, Ph.D. student
John Baird, Ph.D. student
Carlos Celentano, Post-doc, 1997-2000
Phillip Keenan, Post-doc, 1994-1998
Susan Minkoff, Post-doc, 1996-1998
Srinivas Chippada, Post-doc, 1995-1998
Burak Aksoylu, Post-doc, 2003–present

Collaborators in last 48 months

Todd Arbogast, UT Austin
Steve Bryant, UT Austin
Bernardo Cockburn, University of Minnesota
Martin Guillot, University of New Orleans
Tahsin Kurc, Ohio State University
Randy Kolar, University of Oklahoma
Rick Luettich, University of North Carolina
Manish Parashar, Rutgers University
Malgorzata Peszynskya, Oregon State University
Joel Saltz, Ohio State University
Mrinal Sen, UT Austin
Paul Stoffa, UT Austin
Joannes Westerink, University of Notre Dame

Advisors

Mary F. Wheeler (Ph.D.) and Todd F. Dupont (Post-doctoral)