

CHESTER E. CHELLMAN. P.E., L.L.S.

Curriculum Vitae

Chester "Rick" Chellman has more than thirty years experience in civil engineering, engineering consulting, traffic engineering and land surveying, land use regulations and development planning. Mr. Chellman has site planning, civil and forensic engineering, zoning, expert testimony and land use experience throughout the United States of America and to lesser extents in Canada, the United Kingdom, Romania, Central America the Middle East and India. In recent years, Mr. Chellman has also worked extensively on the engineering and traffic engineering aspects of Traditional Neighborhood Development (TND), and New Urbanism (NU) particularly in connection with the matters of street design, vehicular and human-powered traffic control and external transportation connections. Mr. Chellman has authored and co-authored numerous works on topics related to the traffic and transportation aspects of TND/NU design.

Mr. Chellman founded White Mountain Survey Co., Inc., a multi-disciplinary firm that focuses on projects in New Hampshire, in 1977. He more recently founded TND Engineering, a specialty firm addressing engineering consulting and Traditional Neighborhood Development and New Urbanism at all levels and at any location. TND Engineering's primary focus concerns street design and transportation planning.

Mr. Chellman has extensive experience in public participatory planning events. This experience includes participation in dozens of charrettes in many US and international locations. In these charrettes, new towns, extensions to existing towns, and other engineering/planning exercises have been accomplished; other similar charrettes have focused on the drafting of land use ordinances and/or comprehensive (master) plans. Mr. Chellman has also written several land use regulations and zoning ordinances by more conventional means.

Mr. Chellman was also awarded a Knight Fellowship from the University of Miami for 2003, and he has lectured at Harvard University and the Universities of New Hampshire, California, Pennsylvania, Texas and New Mexico.

Examples of work include: teaching a Civitas master class in Woking, UK for the Prince's Foundation for the Built Environment; drafting the transportation aspects of the Los Alamos, New Mexico Downtown revitalization plan. Additional recent experience includes traffic calming/urban and transportation design work in: Mid-Island redevelopment of Nantucket, Massachusetts; Route 138 in Kingstown, Rhode Island; Albuquerque New Mexico; Tucson Arizona; Chocorua Village, New Hampshire; parking analysis for downtown Santa Monica California; and transportation aspects of the Lancaster Corridor (removal of an overhead interstate) in Fort Worth Texas.

Mr. Chellman has also recently worked: in Hull, U.K. on the "taming" of Castle Street; on the transportation aspects of the Cornell University West Campus Residential Initiative in Cornell, New York; on the design of an urban extension to Crewkerne, Somerset, UK for a collaboration between the Prince's Foundation and George Wimpey Homes (winner of a 2006 CNU Charter Award); on the design of four new towns in Guatemala, El Salvador and Costa Rica; the design of the interface between a new town and a large and private toll road in Guatemala; Specific Plans for the California Cities of Santa Ana and Placentia, Whittier; corridor and design details for the Al Rayyan corridor (proposed as a "world-class street") in Doha, Qatar; redesign of Al

Salaam Street in Abu Dhabi, UAE; and, co-author of new Urban Street Design Manual for the Emirate of Abu Dhabi. Recent examples of New Town plans for which Mr. Chellman either led a design team or for which he has had a significant role include Santa Isabel and San Francisco Moran in Guatemala; Tongzhou in Beijing, China; New Capital City in Abu Dhabi (streets designs); and Woodmont Commons in Londonderry, NH.

Mr. Chellman also headed up the traffic and transportation team for the Mississippi Governor's Commission on Recovery, Rebuilding and Renewal charrette in the Fall of 2005 in which eleven Gulf Coast communities were re-planned following hurricane Katrina (<http://www.msrenewalcoalition.org/>).

PROFESSIONAL REGISTRATIONS

Professional Engineer:

Licensed in more than forty (40) jurisdictions in the United States, including all of New England, New York, Arizona, Texas and California.

Licensed Land Surveyor:

Licensed in New Hampshire and Maine

SELECTED SPEAKING & TEACHING ENGAGEMENTS

"Planning 2020"

Kane County Planning Department
Kane County, Illinois March 2000

"Design of New Urbanist Streets"

Urban Land Institute
Orlando, Florida March 2000

"Design of Traditional Neighborhood Streets"

New Mexico State Land Office
Santa Fe, New Mexico, August 2000

"Neo-Traditional Neighborhood Design"

Maine-New Hampshire
Seacoast Growth Mgt Conference
Portsmouth, NH, June 2001

"Context Directed Street Design"

Congress for the New Urbanism
Council # 3
Charleston, South Carolina, April 2002

"Designing Safer Streets for Pedestrians"

NH DOT
Annual Bike & Pedestrian Conference
Durham, NH, May 2002

"Context Directed Street Design"

Congress for the New Urbanism
Council # 4
Santa Fe, New Mexico, October 2002

"TND Transportation Design-Rewriting
Suburban DNA"
Seaside Institute

Seaside, FL, November 2002

Street Design for Town Planning

Instructor, Harvard University
Cambridge, Massachusetts, August 2003

Congress for the New Urbanism #12

Committee Chair, program moderator and
participant, Chicago, Illinois, June 2004

Civitas (Urban Design Master Class)
The Prince's Foundation for the Built
Environment, Woking, UK November 2004

University of Pennsylvania, School of Design
Lecture on South Village and US Street Design
History, Philadelphia, January, 2005

South Village and Context Directed Street Design, Congress for New Urbanism, New England Chapter, Boston, Ma. April 2005

GrowSmart Maine

Lecture on New Urbanism and Transportation, Smart Growth Conference Augusta, Maine, June 2005

Mayor's Institute on City Design
Special Session on Municipal/Educational Interface University of Pennsylvania November 2005

Mayor's Institute on City Design
Gulf Coast Mississippi & New Orleans, La Hurricane Katrina Recovery Concepts and Planning, Participant November 2005

SmartCode Workshop
Biloxi, Mississippi, March, 2006
Speaker

South Carolina Land Use Conference
Governor Mark Sanford, Sponsor
Charleston, South Carolina March 2007
Speaker

Form Based Codes Introductory Class
Sedona, AZ May 2007
Speaker

NH & Maine Chapters of ITE
Traditional Neighborhood Design Techniques
York, Maine June, 2007
Speaker

New England Chapter CNU
West Haven Ct: design of a train station neighborhood
December 2008
Instructor

New England Chapter CNU
Burlington, VT: design of a small town neighborhood
December 2008
Instructor

New England Chapter CNU
Westbrook, Me: design of a group of walkable neighborhoods
December 2008
Instructor

Beijing Municipal Institute on City Planning & Design
International Conference on Tongzhou New Town
March 2010
Keynote Speaker

OTHER EXPERIENCE AND INFORMATION

Charrette Experience:

Participant in more than 100 multi-disciplinary design charrettes in the U.S., Canada and London, U.K., since approximately 1988, focusing on New Urbanism and Traditional Neighborhood Design. Team participant with Duany Plater-Zyberk, Moule & Polyzoides, Calthorpe & Assoc. and others for new communities, extensions to existing communities, the enhancement/redevelopment of existing communities and land use regulation drafting and modifications.

Municipal Experience:

Chairman of the elected Board of Selectmen for the Town of Tuftonboro, New Hampshire; nine year member of the Chester Eric Chellman, P.E., L.L.S. C. V.

Tuftonboro Planning Board, including professional assistance in the completion of the Town's Master Plan; and two years service on the Tuftonboro Zoning Board of Adjustment.

Expert Witness:

Expert qualification and testimony as an Engineer and Land Surveyor in District, Superior and Federal District Courts.
Specialties: Street design, transportation, motor vehicle accident reconstruction; land use regulation and design; civil engineering; cadastral surveys; firearms.

Board Member

Congress for the New Urbanism (CNU), retired 1998; current member CNU New England Chapter

Author/ Principal Author:

The Traditional Neighborhood Development (TND) Zoning Ordinance (text form)

"Design Speed and Related Matters for Neotraditional Neighborhoods" Submitted to 1994 Transportation Research Board

"Street Design: Design Intent, History, and Emerging Concepts", Land Development, Spring-Summer 1995, National Association of Home Builders

"Traditional Neighborhood Development Street Design Guidelines", A Recommended Practice of the Institute of Transportation Engineers (ITE), October 1999

This publication received the ITE's 1998 Transportation Planning Council Technical Committee Award when it was a proposed recommended practice.

"CNU Transportation Design Guidelines", Congress for New Urbanism, *draft* February, 1997

Co-Author of:

"Neo-Traditional Neighborhood Design and Its Implications for Traffic Engineering"

1991 Institute of Transportation Engineers Annual Meeting Best Paper; also published in January 1992 issue ITE Journal.

"New Town Ordinances and Codes" New Classicism Omnibus Volume, Rizzoli International Publications, Inc., New York, NY 1990

"Traffic Engineering for Neo-Traditional Neighborhood Design" February, 1994 Institute of Transportation Engineers, Washington, D.C.

"Architectural Graphic Standards", section on Traditional Neighborhood Development street design

"In Support of Networks" a policy document for the CNU to use in promoting street networks as an additional "functional classification" at the Federal level (2008-2009).

"Context Sensitive Solutions in Designing Major Urban Thoroughfares for Walkable Communities" 2006 Institute of Transportation Engineers, Washington, D.C. Technical Advisor.

"Neighborhood Street Design Guidelines" Institute of Transportation Engineers, Washington, D.C. Recommended Practice 2010. Neighborhood Street Design Committee.

"Urban Street Design Manual" a design and policy manual for the construction, design and layout of urban streets in the Emirate of Abu Dhabi, United Arab Republic (2009).

Technical Adviser:

"Cities in the Balance: Creating the Transit-Friendly Environment" 1993, a 23 minute videotape produced by the San Diego Metropolitan Transit Development Board in cooperation with the ITE and ASCE.

Awards

Charter Award, Congress for the New Urbanism, 2009 for The Smart Code
Driehaus Form-Based Codes Award, 2010 for City of Peoria Form-Based Code

Professional Committees/Other:

ITE Technical Committee #5P-8 "Traffic Engineering for Traditional Neighborhood Developments"
ASCE Urban Transportation Division Planning Committee
Past Board member, First NH Bank

Memberships:

American Society of Civil Engineers

Charter member, Congress for the New Urbanism

Institute of Transportation Engineers (Fellow); member of ITE Transportation

Expert Witness, Traffic Engineering, Transit, Transportation Planning, Parking and Pedestrian and bicycle Councils

National Society of Professional Engineers