

# Charles G. Forster



Charles Forster organized Forster Electrical Engineering in January 1981 as a consulting firm. Mr. Forster has provided professional design services to electric and water utilities in Wisconsin and neighboring states, and has provided consulting services to industrial and commercial clients throughout the United States.

The areas of professional activity Mr. Forster presently pursues are similar to those pursued since 1968.

**Education:** University of Wisconsin - Madison, WI  
BSEE degree, 1967

**Registered professional engineer in the following states:**

Wisconsin-Active	Michigan-Retired
Indiana-Retired	Illinois-Retired
Iowa- Retired	Minnesota-Retired
New Mexico-Retired	Arkansas-Retired
Texas-Retired	Kansas-Retired

**Continuing Education Credits:**

Insulation coordination - University of Wisconsin  
Construction safety - University of Wisconsin  
Transmission line structure design - University of Wisconsin  
Energy auditing - University of Wisconsin  
National safety code seminar - ANSI Seminar  
Microprocessor fundamentals - University of Illinois  
Engineering expert and the courts - University of Wisconsin  
Power cable clinic - University of Wisconsin

**Experience:**

Oak Manufacturing Company, Crystal Lake, IL (1967-68)  
Applications engineer

Waters & Associates, Madison, WI (1968-1981)

Forster Electrical Engineering, Oregon, WI)  
President and owner (1981-2000)  
Senior Consultant (Since 2000)

Phasor Labs (Proprietor)

**Professional Societies:**

Institute of Electrical and Electronic Engineers - SW Wisc.  
Membership Chair, VP and Chair 1981-1984

Illuminating Engineering Society of North America

**Seminar Presentations:**

Power line problems in industrial environments	Los Angeles, CA (1986-87) Houston, TX (1986-87) Univ. of Wisconsin (1988-05)
Advanced power quality	Univ. of Wisconsin (1994-00)
Power quality investigations	MEUW -(1997-99) WECA/WFC -(1997-03)
Stray voltage on the farm	Wisconsin Electric Co-ops (1984) Univ. of Wisconsin - Stout (1985) Moraine Technical Institute (1985) Stray Voltage Roundup (1990) Wisconsin Farm Elec. Council (1992-94) Midwest Rural Elec. Council (2002-05) NRAES (2003)
Stray voltage training	Univ. of Wisconsin Ext. (1993-10)
Electrical power in marinas	Univ. of Wisconsin (1984-99) International Marina Conf. (1997)
Lift station design	Univ. of Wisconsin (1994-03)
Metering and harmonics	WECA/WFC - Eau Claire, WI (1993-96)
Natural Resource, Agriculture and Engineering Service	NRAES - Camp Hill, PA (2003)

**Professional Committees:**

Wisconsin Electrical Code Committee for NEC Code (1990-96)  
Wisconsin Electrical Code Committee for NESC Code (1990-96)  
Wisconsin Electrical Inspection Committee (1990-94)  
Wisconsin Utilities Assoc., Stray Voltage Committee (1989-96)  
Wisconsin International R-O-W Committee (1989-12)  
Wisconsin DNR Lift Station Code Committee (1990-91)  
Wisconsin Power/Communications Committee (1989-96)  
Wisconsin Joint Use Committee (1996-12)  
Wisconsin Dept. of Ag., Stray Voltage Advisory Council (1989-99)  
Public Service Commission of WI, Stray Voltage Docket 106 (1989-90)  
Public Service Commission of WI, EMF Docket 108 (1990-96)  
Public Service Commission of WI, Stray Voltage Steering Committee(1994-96)  
Wisconsin Dept. of Agric.-"Other Electrical Phenomena" Committee-(2000-06)

**Publications:**

American Society of Civil Engineers. Planning and Design Guidelines for Small Craft Harbors. ASCE Manuals and Reports on Engineering Practice No. 50. Inner harbor electrical design. Revised edition. New York, NY: American Society of Civil Engineers, 1994.  
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