

## David Clarke Duecker

### Home:

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### Education

PhD., Physical Chemistry, December, 1988  
University of Cincinnati  
Cincinnati, OH

M.S., Physical Chemistry – June, 1983  
University of Cincinnati  
Cincinnati, OH

B.S., Chemistry – August, 1975  
Indiana Wesleyan University  
Marion, IN

### Additional Training / Workshops

GretagMacbeth Color Seminar “Fundamentals of Color”, Fall 2000

Stat Ease, Inc. 2000, Experimental Design

SkillPath Seminars; Conference on Directing, Controlling and Managing Projects” March 31, 2000

TA Instruments, 5<sup>th</sup> Annual Workshop Series, Autumn 1997; DSC, TGA, DMA, Rheology

ACS National Meeting; Orlando, FL, 1996, “Workshop on Modern Methods of Particle Size Distribution: Assessment and Characterization.”

End Users Radiation Cure Course, Radtech, 1988

Formulators Radiation Cure Course, Radtech 1990

Mitech/Carri-Med Rheology Seminar, September 23 – 26, 1990

IVTC, 1977, Waste Water Plant Operation

### Publications

David C. Duecker; “Radiation-Curable Composition for Optical Fiber Matrix Material”, US Patent 6,449,413 B1, Sep. 10, 2002.

David C. Duecker; “Radiation-Curable Composition for Optical Fiber Matrix Material”, US Patent 6,122,428, Sep. 19, 2000.

David C. Duecker, “Radiation-Cured Matrix Material; Optical Fiber Ribbons Containing Same; and Process for Preparing Said Optical Fiber Ribbons”, US Patent 5,881,194, Mar. 9, 1999.

David Duecker, T. Meyers; “Aging Properties of UV Coatings Containing Various Additives”, Radtech Report, March/April, 1998.

Camille J. Rechel, David C. Duecker, Kelvin Turner, Mark Kristoff; “Why UV-Curable Inks?” Wire Journal International, April, 1998.

David C. Duecker, M. Linda Moorman, Kelvin T. Turner; "Method for "On-Fiber" Color Results of UV Curable Inks Using Flat Films", International Wire and Cable Symposium Proceedings, 1995

Estel D. Sprague, J. M. Denton, David C. Duecker; "Size and Solution Behavior of Sodium 10-undecenoate Oligomers", J. Phys. Chem., 97, 756, 1993.

David C. Duecker; "Micellization, polymerization and polymeric properties of sodium 10-undecenoate" University of Cincinnati Dissertation, 1988.

David C. Duecker, Estel D. Sprague, "Size and Solution Behavior of Poly(Sodium 10-undecenoate), presented at the 18<sup>th</sup> ACS Central Regional Meeting; June 4, 1986; Bowling Green State University.

Estel D. Sprague, David C. Duecker, C. E. Larrabee, Jr.; "The Effect of a Terminal Double Bond on the Micellization of a Simple Ionic Surfactant", J. Colloid Interface Sci., Vol. 92, No. 2, April 1983, 416-421.

Estel D. Sprague, David C. Duecker, C. E. Larrabee, Jr.; "Association of Spin-Labeled Substrate Molecules with Poly(sodium 10-undecenoate) and Sodium 10-undecenoate Micelle", J. Am. Chem. Soc. 1981, 103, 6797-6800.

## Employment

Indiana Wesleyan University, Marion, IN  
Associate Professor of Chemistry; September 2003 to present.

Borden, Inc., Cincinnati, OH  
Senior Product Development Specialist(II); March 1988 to April 2003.

University Of Cincinnati, Cincinnati, OH  
Graduate Teaching Assistant; September 1979 – December 1981; March 1982 – June 1982.

Marion Wastewater Treatment Plant, Marion, IN  
Chemist; June 1975 – August 1979.

Anderson University, Anderson, IN  
NSF Jr. Researcher, June – August 1974.

## Conferences Attended

ACS National Meeting, Washington, D.C. 2009

MATLAC, 2004, 2005, 2009

19<sup>th</sup> Biennial Conference on Chemical Education, Summer 2006.

IWCS 1995

Radtech, 1988, 1990, 1992, 1994, 1996, 2000

ACS Central Regional Meeting, Bowling Green, OH, 1986

## Community Service and Activities

Medical Mission Trip to Peru South America with World Impact, April/May 2009.

Science Demonstration in conjunction with IWU students and Kids Hope at Lincoln Elementary School, Spring 2009.

Kids Hope school mentor program at Lincoln Elementary, Marion, IN with College Wesleyan Church, January 2008 to present.

Flood relief mission trip at Columbus, IN and surrounding area with College Wesleyan Church, July 2008.

ACSI (Science Fair Judge), 2006, 2007 and 2008.

Gideon's International, 1995 – 2008.