**Curriculum Vitae**

Dell W. Jensen, Jr., Ph. D.

Department of Chemistry

Augustana College

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**Education**

Ph.D. University of Kentucky, 2003, Organic Chemistry

B.S. University of Nevada, Reno, 1996, Chemistry

A.S. Santa Rosa Junior College, CA, 1993, Chemistry and Engineering

**Academic Appointments**

Associate Professor, Augustana College Fall 2008-present

Visiting Associate Professor, University of Iowa Spring 2011 (Sabbatical)

Assistant Professor, Augustana College Fall 2002-2008

Visiting Assistant Professor, Vanderbilt University Summer 2004

Visiting Instructor, Centre College, Danville, KYFall 1999-Spring 2002

## TEACHING EXPERIENCE

Augustana College, Associate Professor 2002-Present

Centre College, Danville, KY, Visiting Instructor 1999-2002

University of Kentucky, Preparing Future Faculty Program 1997-1998

**Publications, Presentations & Grants**

*Publications (\*undergraduate student)*

“Beyond Chemical Literature: Developing Skills for Chemical Literacy,” Dell Jensen, Jr., Richard Narske and Connie Ghinazzi; *J. Chem. Ed.,* **2010**, Vol. 87 No. 7, 700–702.

“Synthesis and Characterization of 9-Hydroxyphenalenone Using 2D NMR Techniques,” Benjamin Caes\* and Dell Jensen, Jr.; *J. Chem. Ed.*, **2008**, Vol. 85, No. 3, 413-415.

“Resonating Valence Bond Ground State in Oxygen-Functioning Phenalenyl-Based Neutral Radical Molecular Conductors,” Swadhin K. Mandal, Satyabrata Samanta, Mikhail E. Itkis, Dell W. Jensen, Robert W. Reed, Richard T. Oakley, Fook S. Tham, Bruno Donnadieu, and Robert C. Haddon; *J. Am. Chem. Soc*., **2006**, Vol. 128, No. 6, 1982-1994.

 “Tautomerism and 1H and 13C Assignment of the Methyl Derivatives of 9-Hydroxyphenalenone,” Brian Honeyman\*, Charles Spalding\*, Dell Jensen, Jr. and Robert C. Haddon; *Magn. Reson. Chem.,* **2005**, l. 43, No. 12, 1053-1056.

 “Comparative Studies of Three- and Four-ring Mesogenic Esters Containing p-Carborane, Bicyclo[2.2.2]octane, Cyclohexane and Benzene,” Bryan Ringstrand\*, Jacob Vroman\*, Dell Jensen, Adam Januszko, Piotr Kaszynski, Jerzy Dzizduszek, and Witold Drzewinski; *Liquid Crystals*, **2005**, Vol. 12, No. 8, 1061-1070.

 “Synthesis of 9-Hydroxyphenalenones Derivatives and Their Application in Material Science,” Dell Jensen, Jr., May 2003, Ph. D. Thesis, Advisor: Dr. Robert C. Haddon

*Presentations*

“Assessment of Literature Model for Organic Chemistry” Dell Jensen, 242nd ACS National Meeting in Denver, CO, August 28-September 1, 2011, Presentation.

“Art in Science: Blurring the Lines” Dell Jensen, 17th Annual Conference of Association for Core Text and Course, New Haven, CT, April 14-17, 2011, Invited Presentation, Augustana College cosponsor panel, Catherine Carter Goebel, Chair

“New Model for Organic Laboratory” Dell Jensen, Richard Narske, 20th Biennial Conference on Chemical Education, Indianapolis, IN, July 30, 2008, Presentation

"Trends in the chemical shifts of 9-hydroxyphenalenone derivatives" Dell Jensen, Benjamin Caes\* and Daniel Cast\*, 233rd ACS National Meeting, Chicago, IL, March 25-29, 2007, Presentation

"Information literacy in the chemistry major: Stretching our money at Augustana College" Connie Ghinazzi, Dell Jensen and Richard Narske, 233rd ACS National Meeting, Chicago, IL, March 25-29, 2007, Presentation

“Organic Chemistry Laboratory from the Journal of Chemical Education” Dell Jensen and Richard Narske, 19th Biennial Conference on Chemical Education, West Lafayette, IN, August 1, 2006, Invited Presentation

“Beyond library basics: Building skills for reading scientific literature” Dell Jensen, Richard Narske and Connie Ghinazzi, 19th Biennial Conference on Chemical Education, West Lafayette, IN, August 2, 2006, Presentation

“Integration of Synthesis and Spectroscopy using 9-Hydroxyphenalenone” Dell Jensen, 19th Biennial Conference on Chemical Education, West Lafayette, IN, August 2, 2006, Presentation

“PFF Mentoring Program at the University of Kentucky” Dell W. Jensen and Carolyn Carter, 222nd ACS National Meeting, Chicago, IL, August 27, 2001, Invited Presentation

*Grants*

SENCER NSF Sub-Award, National Center for Science & Civic Engagement, $3000, 12/2010-12/1012

Augustana Research Foundation, Summer Research Grant, “Liquid Crystals in Dendritic Structures”, $1800, 5/2006-9/2007

Presidential Research Fellowship, “Study of Substitution Effects on the Chemical Shifts and Tautomerism in 9-Hydroxyphenalenone Derivatives”, Summer 2006, $4000.

Augustana College New Faculty Research Award, “Novel Synthesis and Characterization of Chiral Liquid Crystals with Spiro-Aromatic Cores”, $4000, 2/2005-9/2006

PI – Richard Narske, Co-PIs – Dell Jensen and Randall Wanke, Major Research Instrumentation/Research in Undergraduate Institutions (MRI/RUI) grant, “Replacement and Up Scaling of a GC-MS to Enhance Faculty & Undergraduate Research and Chemistry Education at Augustana College”, CHE-0420889, $85,590, 9/04-9/07

Augustana College New Faculty Research Fund, “Novel Synthesis and Characterization of Chiral Liquid Crystals with Spiro-Aromatic Cores”, $3800, 12/19/2003-9/30/2005

PI – Pamela Trotter, Co-PIs – Dell Jensen and Richard Narske, Major Research Instrumentation/Research in Undergraduate Institutions (MRI/RUI) grant, “Acquisition of a 400 MHz NMR to Enhance Faculty & Undergraduate Research and Chemistry Education at Augustana College”, CHE-0320267, $327,875, 7/03-7/06

Augustana College New Faculty Research Fund, “Novel Chiral Spiro-Liquid Crystals”, Award Amount: $4000, Grant Period: 12/16/2003-9/30/2004

**RESEARCH –** Senior Inquiry Project\*

Study of Substitution Effects on the Chemical Shifts and Tautomerism in 9‑Hydroxyphenalenone Derivatives – This project was begun by Brian Honeyman (’06) and Charles Spalding (’05) in fall ’04 studying the effect of methyl substitution on 9‑hydroxyphenalenone. The initial results were published in Magnetic Resonance in Chemistry in 2005. Additional students that have worked on this project are Dan Cast (’07), Ross Jensen (’07), and Ben Caes (’07). Ben’s work resulted in the 2008 J. Chem. Ed article. The most recent students were Wes Samore (’10), Dan Maturo (’11)\*, Arik Loane (’12), Elizabeth Bradford (’12)\* and Rebecca Black (’13)

Chiral Spiro-Aromatic Liquid Crystals – This research project originally begun in the spring ‘03 in collaboration with Mary Ellen Biggin. Twelve students have worked on this project in the past seven years, most recently Sven Steen (’10), Michael Mack (’10), Elizabeth ‘Libby’ Geison (’10), Amanda Meyers (’11), Colleen Mans (’12), Stephanie Aeschliman (’12), and Nicholas Petre (’13).

Development of Organic Laboratory Experiments – This project is a recent development in broadening the range of organic laboratory experiments available in the chemical educational literature. This started with the 2008 publication in J. Chem. Ed. Recently, two students have been working on a suitable synthesis of capsaicin for organic chemistry, Donald Anciaux (’11), Elizabeth Hinds (’11)\*.

Faculty Advisor for Senior Inquiry

Jeffery Batt (’11), Martin Oltmanns (’11), Elizabeth Hinds (’11), Daniel Maturo (’11)

**College service**

AS&D, division respresentative, ’10-12

Faculty Senate, Associate Rank, ’08-10

Campus Representative, Midstates Consortium for Math and Science, ’08-11

Faculty Research, division representative, two terms, ’04-08

General Education, at large, 3 year term, ’04-07

Center for Vocational Reflection, 2 year term, ’05-07

## Professional ASSOCIations

American Chemical Society, Member, 1995

American Association of University Professors, Member, 2000

Midwestern Association of Chemistry Teachers in Liberal Arts Colleges, Member, 2002

Sigma Xi, Member, 2004

 Chair-Elect, John Deere Chapter, 2007-2008

Chair, John Deere Chapter, 2008-2009

Program Chair, John Deere Chapter, 2009-2010

Council on Undergraduate Research, Member, 2008

**COMMUNITY ACTIVITIES**

Rock Island Water Pollution Control Commission, two 3 year appointments, 2007-2013

Science Consultant and Expert Witness; Coyle, Gilman, Stengel, Bailey & Robertson, Law Offices, Rock Island, IL June-Oct, 2010

**ProFessional Activities**

Reviewer, Journal of Chemical Education, 2011-2012 (one article)

242nd ACS National Meeting in Denver, CO, August 28-September 1, 2011

Conference host, Midcareer Faculty Development Workshop, Augustana College, February 18-20, 2011 sponsored by Midstates Consortium of Math and Science

Electronic Media Reviewer, “Organic Chemistry” 1st Ed., David Klein, John Wiley & Sons, Inc., 2010-2011 school year, SME – Subject Matter Expert

Institutional Team Leader, SenCER Summer Institute, UNCA, Asheville, NC, July 29-August 2, 2010

Center for Workshops in the Chemical Sciences (CWCS), “Food Chemistry”, Clarke College, Dubuque, IA, July 25-28, 2010.

Outside Examiner, Liwei Ding, Honors Program, Knox College, May 27, 2010, Honors Advisor, Tom Clayton.

Book & Content Reviewer, “Organic Chemistry” 1st Ed., David Klein, John Wiley & Sons, Inc., 2009-2010 school year.

Co-organizer of SENCER campus workshop by Marion Fass, February 4, 2010

Content Author, Online Materials, WileyPlus, John Wiley & Sons, Inc., February 2010.

SenCER Summer Institute, Harold Washington College, Chicago, IL, August 6-10, 2009

Reviewer, Journal of Chemical Education, 2008-2009 (two articles)

Sigma Xi, Annual Meeting, Washington DC, November 20-23, 2008, Designated Delegate for John Deere Chapter

 “The Impact of Changes in ACS Guidelines”, Colorado College, CO, June 27-29, 2008, Workshop sponsored by Midstates Consortium of Math and Science.

CUR National Conference, "Frontiers and Challenges in Undergraduate Research", College of Saint Benedict, MN, June 21-24, 2008.

Book Reviewer, Sherwood: Organic Chemistry Text Proposal, John Wiley & Sons, Inc., February 2008.

Reviewer, Journal of Chemical Education, 2007-2008 (one article)

American Conference of Academic Deans & Phi Beta Kappa Society Joint Conference "Promoting the Liberal Sciences: Science as Liberal Education" October 25-27, 2007, Washington, DC.

Center for Workshops in the Chemical Sciences (CWCS), “Forensic Science”, Williams College, MA, June 17-22, 2007.

233rd ACS National Meeting, Chicago, IL, March 25-29, 2007

Jeol Institute, “Basic NMR Operations & System Management Course,” August 14-18, 2006, Peabody, MA.

19th Biennial Conference on Chemical Education, Purdue University, IN, July 30-August 3, 2006.

21st International Liquid Crystal Conference, Keystone, CO, July 2-July 7, 2006.

Chapter Reviewer, “Organic Chemistry” 1st Ed., David Klein, John Wiley & Sons, Inc., August 2006.

Grant Reviewer, ACS-PRF, 2005-2006 (one grant proposal)

Reviewer, Journal of Chemical Education, 2005-2006 (two articles)

Book Reviewer, “The Organic Chem Lab Survival Manual” 6th Ed., James W. Zubrick, John Wiley & Sons, Inc., November 2005

Sigma Xi, Annual Meeting, Seattle, WA, November 3-6, 2005, Designated Delegate for John Deere Chapter, Undergraduate Presentation\*

Project Kaleidoscope, “Building Research-rich STEM Learning Environments” University of Maryland, Baltimore County, October 7-9, 2005

Grant Reviewer, ACS-PRF, 2004-2005 (two grant proposals)

Book Reviewer, “An Introduction to Organic Synthesis” Nantz and Zweifel, W.H. Freeman, New York, December 2004

Working Weekend at Iowa, “Nanoscience and Nanotechnology”, October 22-23, 2004.

36th Great Lakes Regional Meeting, American Chemical Society, Peoria, IL, October 17-20, 2004. Undergraduate Presentation\*

Linking Teachers to Research Experiences, September 27, 2003, IIT, Chicago.

Working Weekend at Iowa “Microscopy”, April 11-12, 2003.

Working Weekend at Iowa “X-ray Crystallography and Computational Chemistry”, October 18-19, 2002.