**Selected Publications:**

September 17, 2019 - AAPG Rocky Mountain Section Regional Meeting, Cheyenne, Wyoming - "Potential Shale-Oil Reservoirs in the Eastern Bighorn Basin, Wyoming." **\*This poster won the Steve Champlin Memorial Award for the best poster presentation.**

February 18, 2019 - Search and Discovery Article #11197 - "[3-D Petroleum Systems Model of the Bighorn Basin, Wyoming](http://www.searchanddiscovery.com/pdfz/documents/2019/11197toelle/ndx_toelle.pdf.html) ".

December 11 - 13, 2018 - AAPG/EAGE Shale Gas Evolution Symposium, Bahrain - "3-D Petroleum Systems Model of the Bighorn Basin, Wyoming".

2018 - Geological Society of America Special Paper 531, Chapter 8 - "Porosity characterization in a Silurian reef, northern Michigan Basin, using azimuthal seismic data and potential impacts for enhanced oil recovery".

June 2, 2016 - European Association of Geoscientists and Engineers -[78th EAGE Conference & Exhibition](http://www.eage.org/event/index.php?eventid=1391) - Vienna, Austria - "Developing a Naturally Fractured Reservoir for Underground Gas Storage".

August 2015 - Society of Exploration Geophysicists (Peer Reviewed Journal) "Interpretation" - [Rank exploration of selected European shale plays](http://library.seg.org/doi/abs/10.1190/INT-2014-0209.1) - Volume 3, Issue 3.

December 10, 2013 - European Association of Geoscientists and Engineers - Second EAGE Workshop on Naturally Fractured Reservoirs - Muscat, Oman - "Subtle Structure Detection Using Spectral Decomposition for Fracture Mapping".

WVU Ph.D. dissertation ["Use of 3D Seismic Azimuthal Iso-Frequency Volumes for the Detection and Characterization of High Porosity/Permeability Zones in Carbonate Reservoirs"](http://adsabs.harvard.edu/abs/2012PhDT.......202T).

Summer, 2012 - Oilfield Review - ["Seismic Detection of Subtle Fractures"](http://www.slb.com/~/media/Files/resources/oilfield_review/ors12/sum12/3_seismic.pdf).

Autumn, 2011 – Oilfield Review - ["Shale Gas Revolution"](https://www.slb.com/~/media/Files/resources/oilfield_review/ors11/aut11/04_shale_gas_revolution.pdf).

November 4, 2009 – New York Independent Oil and Gas Association – “Geological Considerations for Gas Shale Plays”.

February 23, 2009 - Geophysical Society of Oklahoma City - "3-D Seismic Evidence for Early Paleozoic Pannotian Breakup Features in Central Oklahoma"

November, 2008 - Society of Exploration Geophysicists Annual Convention - "Pannotian Breakup (Iapetan Opening) Features in Central Oklahoma"

April 19–23, 2008 - SPE Improved Oil Recovery Symposium held in Tulsa, Oklahoma, U.S.A. - ["EOR Potential of the Michigan Silurian Reefs Using CO2"](https://www.onepetro.org/conference-paper/SPE-113843-MS) - SPE 113843-PP.

February 5, 2008 – West Virginia IOGA – “ShaleMAP & FractureMAP: Understanding Shale Reservoir Heterogeneity”.

November 27, 2007 - Appalachian Geological Society - "Porosity Detection in Carbonate with Seismic Attributes".

November 5, 2007 - Wright State University - "Basin Modeling as a Hydrocarbon Exploration Tool".

September 17, 2007 - American Association of Petroleum Geologists (AAPG) Eastern Regional - "CO2 Sequestration Potential of the North Michigan Silurian Reef Trend". This paper received the "2007 Eastern Section Division of Environmental Geosciences Award for Best Paper".

September 25, 2007 - Society of Exploration Geophysicists - "Interpretation of Parallel 2D Seismic as a Psuedo-3D for Reservoir Characterization of a Proposed Offshore Gas Storage Field Conversion".

October 18, 2007 - SPE Eastern Regional - "Pseudo-3D Seismic Use for Development of First US Offshore Gas Storage Facility" - SPE 111224-PP.

October 19, 2007 - SPE Eastern Regional - "CO2 EOR From a North Michigan Silurian Reef" - SPE-111223-PP.

March 21, 2006 - Berkeley CO2SC Symposium - "Use of Instantaneous Frequency to Map Porosity in a Silurian Age Reef in Northern Michigan Basin in Preparation for CO2 Injection".

February 28, 2005 - Houston Geological Society - North American Exploration Dinner - Houston, Texas - "An Overview of the Trenton–Black River Play".

October, 2004 - Society of Exploration Geophysicists Annual Convention - Denver, Colorado - "2-D Variance and Blended Attribute Analysis of Deep Structures in Lincoln, Co., West Virginia".

October, 2004 - Joint Association of Petroleum Geologists - Society of Petroleum Engineers Regional Conference - Columbus, Ohio - "Improved Interpretation of Deep Structures in Southern West Virginia through 2-D Variance and Blended Attribute Analysis".

October 28, 2003 - Appalachian Geological Society - "An Overview of Basic and Advanced Seismic Exploration Methods In The Appalachian Basin".

October 2, 2003 - Petroleum Technology Transfer Council, Appalachian Region - "E & P Enhanced Knowledge Management Systems".

March, 2003 - Joint Pittsburgh Association of Petroleum Geologists - Appalachian Geological Society Meeting - Morgantown, West Virginia - "Advanced Seismic Evaluation and Visualization Methods".

February 2003 - Pittsburgh Society of Petroleum Engineers Meeting - Pittsburgh, Pennsylvania - "Advanced Seismic Evaluation and Visualization Methods".

December, 2002 - Joint Canadian Exploration Geophysical Society and Ontario Exploration & Geoscience Symposium - Toronto, Ontario - "Blended Seismic Attributes and Volume Visualization".

May, 2002 - Joint SPE/AAPG conference in Anchorage, Alaska - "Rapid Seismic Screening and Probabilistic Economic Methodologies for Prioritization of Targets" - SPE Paper 76741.

September 15, 2001 - Alaska Oil & Gas Reporter - "Unique problem, a unique approach".

September, 2001 - Leading Edge - "E & P Knowledge Management Systems and their support of the G & G process".

July, 2001 - The American Oil & Gas Reporter - "Knowledge Sharing Systems Create Long-Term Capabilities".

June, 2001 - American Association of Petroleum Geologists (AAPG) annual convention - "Complex Structural Mapping without 3D Seismic Data" Poster Session.

May 2001 - World Oil - "Managing Knowledge as a Company Asset".

January 25, 2001 - The Oil and Gas Executive Report "Knowledge Management - Key to Enhanced Productivity".

July, 1999 - The American Oil & Gas Reporter - "Visualization Unravels Complex Field”.

September, 1996 – First Break – “Integrated Reservoir Characterization Process Model: a planning and scheduling tool for E&P organization”.

Summer, 1995 – Saudi Aramco Journal of Technology – “Integrated Reservoir Characterization Process Model: a planning and scheduling tool for E&P”.